

THE CHEMIST & DRUGGIST, JULY 21, 1923.



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JULY 21, 1923.

Vol. XCIX.

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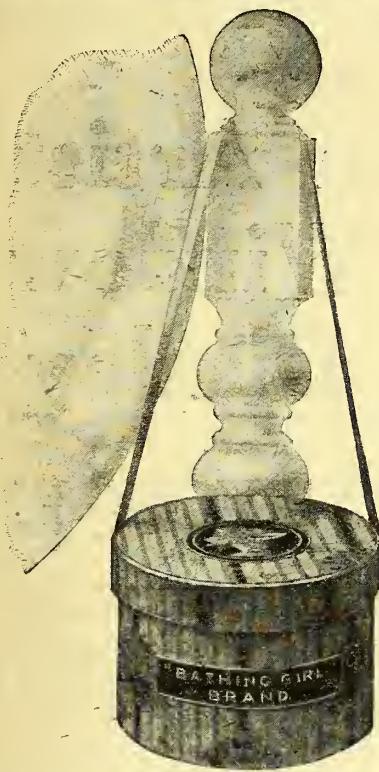
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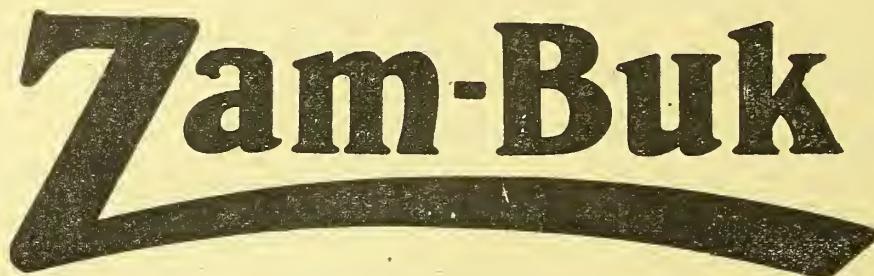
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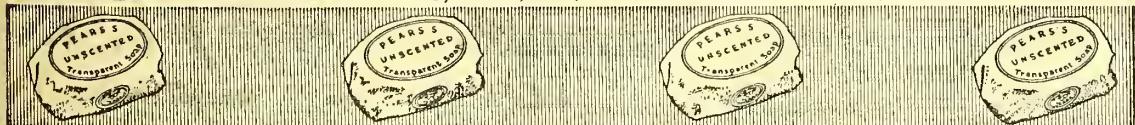
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INDEX TO ADVERTISERS

Addis, R., & Son (Toothbrushes)	27	Corrugated Packing Materials Co., Ld. (Corrugated Paper, &c.)	46	Glew, F. Harrison (Radium Com- pound)	Col. Supp.
Allen & Hanburys, Ld. (Insulin Price Reduction)	13	Courtin & Warner, Ld. (Chemicals) ..	v	Goris, L. H. (Chemicals)	vii
Anglo-American Pharmaceutical Co., Ld.	xv	Cox, Arthur H., & Co., Ld. (Toilet Preps.)	1	Gough, Kidston & Co. (Petro Jelly)	xvi
Armour & Co., Ld. (Digestive Fer- ments, &c.)	8-TexI	Crusader Rubber Co., Ld. (Hot Water Bottles)	10	Gower, J. (Books)	Col. Supp.
Arnott, J., & Sons, Ld. (Oils)	xvi	Cuff, J. H., & Sons (Fly Oil)	44	Grasscer-Monsanto Chemical Works, Ld. (Chemicals)	Cover
Ashton & Parsons, Ld. (Phosferine)	xxiii	Davis & Co. (Clinical Thermometers) ..	34	Greeff, R. W., & Co., Ld. (Chemicals)	9
Association of Manfg. Chemists, Ld. xxiv- Col. Supp.		De St. Dalmas, A., & Co., Ld. (Plasters, &c.)	31	Greenwich Lemonade Co. (Lemonade Powder)	40
Ayrton, Saunders & Co., Ld. (Whole- sale Druggists)	15	Dearborn (1923), Ld. (Toilet Speciali- ties)	19-26	Griffin, J. J., & Sons, Ld. (Pharma- ceutical Machinery)	xxi
Baiss Bros. & Co., Ld. (Chemicals) ..	ii	Dee Oil Co., Ld. (Petroleum Jelly)	xviii	Grout & Co., Ld. (Norvic Crêpe Ban- dage)	30
Bandoeng Quinine Factories	xiii	Dodge & Olcott Co. (Essential Oils) ..	20	Haller Laboratories, Ld. (Danysz Virus)	44
Barker, R., & Son, Ld. (Infants' Pre- servative)	36	Dudley & Co. (Cash Tills)	12	Hampshire, F. W., & Co., Ld. (Snow- fire Soap)	26
Barker, R. W., & Co.	Text	Duncan, Flockhart & Co. (Protein, &c.)	x	Harley, T. (Rat Poison)	44
Bath and West of England College	42	Edge, W., & Sons, Ld. (Movol)	xxii	Harpic Mfg. Co.	Text
Battin, H., & Co., Ld. (Utric Acid) ..	ii	Evans Sons Lescher & Webb, Ld. (Lime Juice)	Cover	Henry, T. & W. (Calcined Magnesia) ..	x
Beecham, Thomas (Pills)	xxiv	Evan-Williams Co., Ld. (Henna Shampoos)	24	Hertz & Co. (I. D. Fluid)	46
Berdoe & Fish	Col. Supp.	Fairy Dyes, Ld. (Home Dyes)	xxii	Heward, R. H. Co. (Surgical Ap- pliances, &c.)	31
Berton, Arthur, Ld. (Bathing Caps, &c.)	30	Farmer, F., & Co. (Vermin Killer) ..	44	Hill Bros. Glass Co., Ld. (Display Cases)	42
Bramwell, E., & Son, Ld. (Chemicals) ..	v	Fassett & Johnson (Whirling Sprays) ..	35	Hollandsche Melksuikerfabriek	xii
Burge, Warren & Ridgley, Ld. (Seamless Enemas)	30	Fennings, A. (Cooling Powders)	Text	Hooper & Co. (Hay fever Remedy, &c.) ..	xiv
Burkett, Sharp & Co., Ld. (Chemi- Burrough, J., Ld. (Absolute Alcohol) Text cals)	x	Field, C. W., Ld. (Saponin Powder, &c.)	viii	Horlick's Malted Milk Co.	37
Burroughs Wellcome & Co. (Saxin) ..	47	Fink, F. & Co. (Gums)	46	Howards & Sons, Ld. (Sodii Suphas, &c.)	1
Bush, W. J., & Co., Ld. (Perfumery) ..	14	Fikeny Stores Co. (Fikeny Preps.) ..	xi	Hubbuck, T., & Son, Ld. (Oxide of Zinc)	viii
Cadbury Bros. (Cocoa)	Cover	Forbest, Ld. (Developing)	45	Huisking, C. L., Inc. (American Drugs)	xiii
Capsol Dyes, Ld.	45	Ford, Shapland & Co., Ld. (Sanitary Paper)	46	Ingenlath, P. (Food Gelatine)	38
Cartwright, W. B., Ld. (Elfrida Series)	Cover	Forhans (Dentifrice)	24	Ingram & Royle, Ld. (Mineral Waters)	41
Castle Huskisson, Ld. (Health Salts, &c.)	xii	Freeman, J. (Brushware)	28	Ingram's Milkweed Cream	23
Cellophane Co. (Wrapping Material)	xiv	Fulford, C. E., Ld. (Zam Bnk)	4	Jackson, J., & Co. (Mitcham Rd. 1921), Ld. (Ess. Oils)	20
Cheltine & Manhu Foods Co. (Dia- betic Food)	38	Fullwood, R. J., & Bland (Rennet) ..	46	Jeffreys, Miller & Co., Ld. (Malt Ex- tract, &c.)	36
Christy, T., & Co., Ld. (Lysoform) ..	46	Galjado Perfumery Co., Ld. (Toilet Preps.)	26	[Continued overleaf.]	
Cleaver, F. S., & Sons (Toilet Preps.) ..	28	Garratt, J. E. (Newskin)	32		
Connell, A., & Co. (Melba Toilet Preps.)	28	George, E. J. (Stocktaking)	Col. Supp.		
	19	Gibbins, R., & Co. (Tablets)	xi		



A. & F. Pears, Ltd., 71/75 New Oxford Street, London, W. C. 1.



INDEX—cont.

Johnson & Sons (Mfg. Chts.), Ld. (Chemicals)	iii	Prideaux's Food, &c., Co., Ld. (Milk Food)	38
Josephs, Philip, & Sons, Ld. . Col. Supp.		Pure Russian Liquid Paraffin Co., Ld.	xix
Kalos (Liquorice)	xiii	Quelch, Henry C., & Co. (Swadown Powder)	21
Kay Bros., Ld. (Flycatchers)	44	Ransom, W., & Son, Ld. (Tinctures) Cover	
Keene's One Night Cures, Ld.	32	Redgrave, Butler & Co. (Liquid Paraffin, &c.)	xix
Kerfoot, T., & Co., Ld. (Distil Ottos)	17	Richards, F. H. Col. Supp.	
King, J. C., Ld. (Window Paper)	xxi	Roberts' Patent Filling Machine Co.	xxi
Kirby, H. & T., & Co., Ld. (Lavender Moth Tablets)	13	Robinson & Sons, Ld. (Pill Boxes)	12
Koh-i-noor Nail Brushes	Cover	Robinson, B., & Co., Ld. (Ess. Oils)	40
Lang, Jules, & Son (Glassware)	42	Rose, J. L. (Pyrogallic Acid)	viii
Lautier Fils, Ld. (Ess. Oils)	20	Rudduck & Co. Col. Supp.	
Lincoln & Midland Counties Drug Co., Ld. (Clarke's Blood Mixture)	xv	Sadler & Moore (Cigarettes)	45
McGlashan, D., Ld. (Abidine)	xv	Sambooy (Hair Tonic)	26
Mack-Ivor, J. Col. Supp.		Samuelson, P., & Co. (Ess. Oils)	Text
Matthews, D., & Son (Shopfittings) Col. Supp.		Sandoz Chem. Co., Ld. (Alkaloids)	ii
Maw, S., Son & Sons, Ld.	11	Sanitas Co., Ld. (Sanitas Fluid)	3
May & Baker, Ld. (Stovaine) Cover		Schutze, F., & Co., Ld. (Solid Face Powders, &c.)	46
Meade-King, Robinson & Co., Ld. (Petroleum Jelly, &c.)	xviii	Scruton, Oscar, & Co. (Nurse Harvey's Mixture)	xv
Menley & James, Ld. (Aspirin Tablets)	xi	Scurr, C. A. (Optical Tuition)	42
Millar, A., & Co., Ld. (Orange Wine)	46	Shadeine Co. (Hair Dyes)	46
Mills, A. J., & Co., Ld. (Honey)	38	Shawyer, A. J., & Co. (Developing, &c.)	46
Milners Chemical Co. (Straw Hat Cleaner)	34	Sherley, A. F., & Co., Ld. (Dog Medicines)	44
Naef, M., & Cie (Synthetic Perfumes)	Text	Shoppee, Albert C., Ld. (Weighing Machines)	35
National Cash Register Co., Ld.	xviii	Simplic Soother	7
National Drug & Chem. Union. Col. Supp.		Single, Dalby & Co. (Chicago Hair Dye)	46
Northern Business Transfer Agency Col. Supp.		Singleton & Cole, Ld. (Tobacco)	46
"O-Pine-O" Mfg. Co., Ld. (Toilet Preps.)	32	Slack, A. B. Col. Supp.	
Orridge & Co. (Valuers, &c.) .. Col. Supp.		Smith & Co. (Fly Catcher)	46
Page, Chas., & Co., Ld. (Chemicals)	iv	Smith, T. & H., Ld. (Chemicals)	iv
Papier Poudre, Ld. (Toilet Preps.)	22	Soc. Voor Chemische Industrie	viii
Pears, A. & F., Ld. (Unscented Soap)	5	Spatula Publishing Co. (Books)	32
Pharmaceutical Landoline Co. (Landoline)	xvi	Star Brush Co., Ld. (Nail Brushes)	18
Photopress (Developing, &c.)	45	Stearns, E., & Co. (Packed Goods)	xii
Pindar, J. W., & Co. (Pill Machinery)	xv	Sterns, Ld. (Oils, Petroleum, &c.)	xvii
Potter & Clarke, Ld. (Skin Clear)	29	Stubbs, H. H. (Dog Shampoo)	12
		Sturge, J. & E., Ld. (Precipitated Chalk)	ix
		Suttley & Silverlock, Ld. (Toilet Roll)	35



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Telegrams:
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Sutton, G. F., Sons & Co. (Ammonia)	xix
Swales, Thomas (Hot Water Bottles)	32
Taylor, Ernest, Ld. (Tins)	12
Thames Chemical Co., Ld.	v
Thermos, Ld.	33
Thew, Hooker & Gilbey, Ld. (Malted Milk)	36
Thompson, John (Wholesale Druggists, 1921), Ld. (Olive Oil)	6
Tiffins Dentabath, Ld.	26
Tilbury, W. R., & Son (Prophylactic Toothbrush)	19
Titterton & Howard, Ld. (Brushware)	20
Tomlinson & Hayward, Ld. (Weed Killer, &c.)	Text
Trufood, Ld. (Foods)	39
Van Der Hocks (Bottles)	46
Vanities Ld. (Grease Paint)	20
Venesta, Ld. (Coll. Tubes)	xx
Vickers, Ld. (Containers)	xx
Viscose Development Co., Ld. (Bottle Cappings)	32
Waide, Thos., & Sons, Ld. (Printers, &c.)	16
Wallace Heaton, Ld. (Photographic)	45
Warrick Bros., Ld. (Chemicals)	48
Warrington Chem. & Drug Co.	viii
Washington Chemical Co., Ld. (Magnesia)	ix
Watts, J. (Safety Razor Blades)	xviii
Westminster College of Pharmacy	42
Whipman, P., & Co., Ld. (Chemicals)	ii
Whitaker & Co. (Hat Dyes, Household Dyes)	2
Wilkinson & Simpson, Ld. (Health Salt)	40
Willows, Francis, Butler & Thompson, Ld. (Drug Grinders, Disinfectants, Foods)	x
Winter, E., & Co., Ld. (Gold and Silver Leaf)	viii
Wood Bros. Glass Co., Ld. (Glassware)	43
Woolley, Jas., Sons & Co., Ld. (Lysol)	25
Wyleys, Ld. (Pharmaceuticals)	Cover
Youldon, F. (Bottles)	34
Zeal, G. H., Ld. (Clinicals, Resetting Case)	35
Zimmermann, C., & Co. (Chem.), Ld. (Idozan, &c.)	vi-xii

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Maw's Page



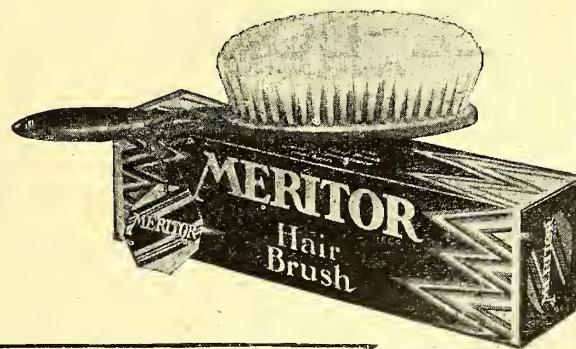
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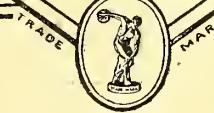


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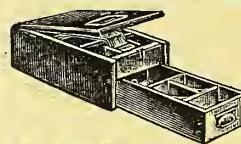
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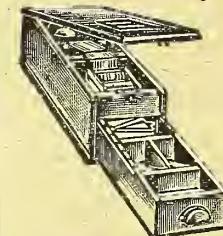
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Alarm Bell, Lid fitted with lock and key.
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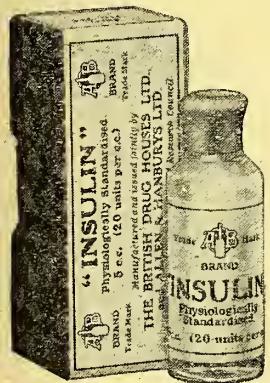


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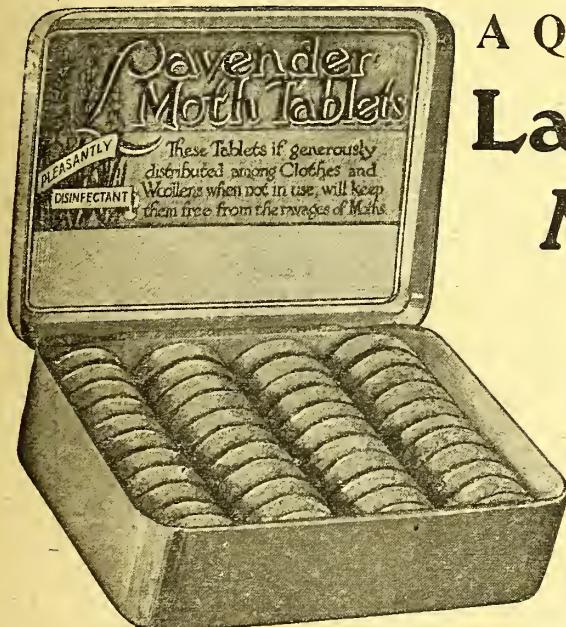
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(Regd.)

"Devonetta" Violet Perfume possesses a peculiar sweetness which is characteristic of violets grown in the County of Devon. Special attention has been given to the appearance of the package; the colour scheme is harmonious and worthy of the best traditions of Buisson Frères.

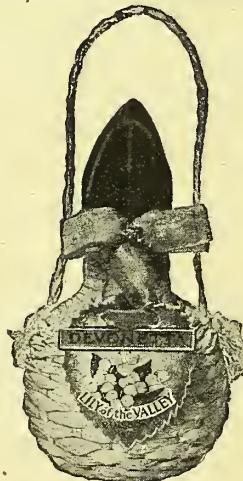
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"DEVONETTA" LILIES BUISSON

(Regd.)

The Perfume contained in "Devonetta" Lilies is "Lily of the Valley, Buisson," which has been appreciated by the public for its delicate floral odour for many years. The odour is sweet, sweet with the fragrance of lovely Devon.

PACKED IN TWO SIZES AS ILLUSTRATION

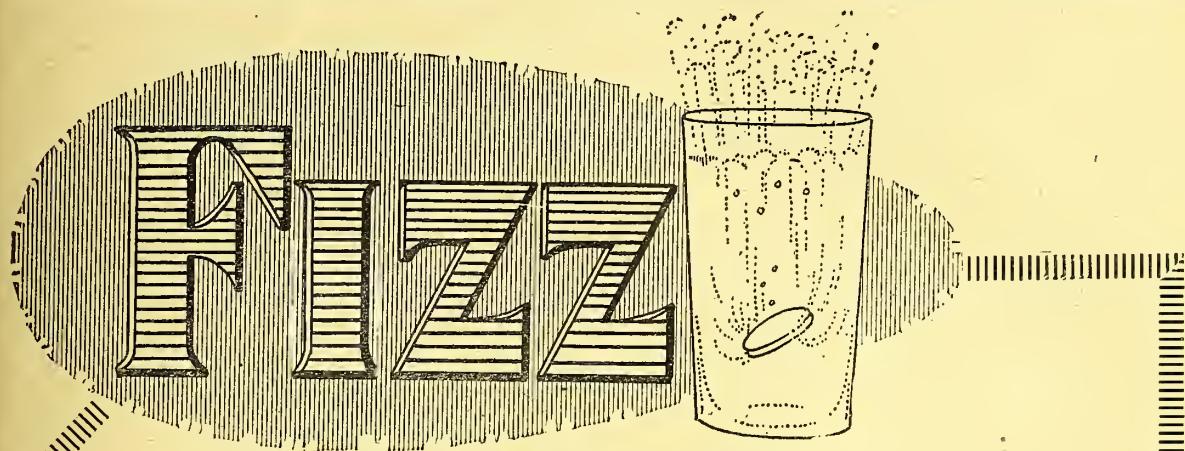


BUISSON FRÈRES

LONDON

Sole Proprietors : W. J. BUSH & CO. Ltd., Ash Grove, Hackney, London, E.8

Sole Scottish Agents for Perfumery Products : Messrs. MUNRO, M'LAREN & SUTHERLAND, Glasgow



AYRTON'S LEMONADE TABLETS

for

PICNICS
PARTIES
TENNIS

OUTINGS
BOATING
CRICKET

and all Summer occasions

P.A.T.A. 6½d. per tin

54/- gross

With 1 dozen bonus added to each order for one gross.

UNIQUE DISPLAY MATTER AVAILABLE AND LIBERAL COUNTER BILLS WITH EVERY ORDER.

1½d.	THIRST QUENCHERS, in rolls	- - -	12/- per gross
3d.	" "	" - -	24/- "
9d.	" "	in tins - - -	78/- "
	AYRTON'S LEMONADE POWDER, in tins	-	6/9 per doz.
"	"	(2d. packets)	15/- per gross

Note our Telegraph Address—
You'll probably need it :—
"SUNDRIES," LIVERPOOL.

AYRTON, SAUNDERS & CO., LTD.
Hanover Street - - - LIVERPOOL

A TRUE LIKENESS



AS a Photo gives a true likeness of an object, so should your printed matter give a true likeness of your goods. It is far better to do WITHOUT printed matter than to use that which is not effective.

Good Printing is always cheaper than poor Printing.

As a firm of Chemists' Printers with fifty years' reputation

LET US HELP YOU.

FULL SET OF SAMPLES SENT TO COLONIES ON RECEIPT OF 10/- WHICH IS CREDITED ON RECEIPT OF ORDERS FOR £10 AND UPWARDS.

Thomas Waide & Sons Ltd.

Chemists' Printers,

KIRKSTALL ROAD, LEEDS.



The EASINESS of “DISTOL” OTTOS.

Take 2 to 4 drams of any “Distol” according to the strength required, and add S.V.R. and Aqua Dest. to make up to One Pint.

— and that's all!

Nothing could be easier than the preparation of good perfumery from “Distol” Ottos, and the economies that result are enormous. Make up your own proprietary perfume with “Distol” Otto instead of stocking and pushing expensive advertised goods.

There are 40 “Distols” retailing at the uniform price of 7/6 per oz. net. An ounce of any “Distol” makes 81 ozs. of good perfumery, or 40 oz. of “De Luxe” quality, such as will compete with the most expensive brands on the market



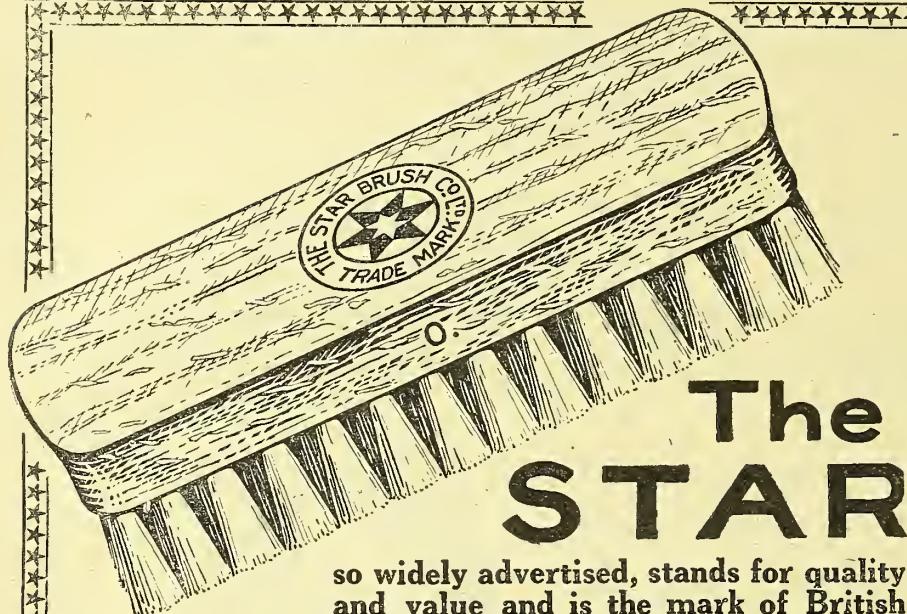
“DISTOLS” AND SPIRIT ECONOMY.

“Distol” perfumery can be made in small quantities as required, thus obviating the locking up of capital in extensive stocks of S.V.R. Most “Distols” lend themselves to considerable dilution with Aqua Dest. without loss of their distinctive characteristics.

Ask for free samples of perfumes made from any six “Distols.”

THOMAS KERFOOT & CO LTD.
BARDSTLE VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT



The STAR

so widely advertised, stands for quality and value and is the mark of British Goods made by British Labour.

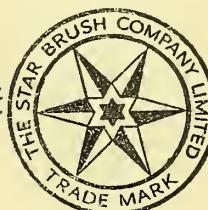
The public know the wearing qualities of Star Brushes and have complete confidence in the brand. Millions insist on having "the brush with the Star on the back" because they know by experience it is the best that money can buy.

You can profit by this great public demand if you stock

STAR NAIL BRUSHES

Write at once for the splendid sample case containing 81 brushes of the best selling lines which we are supplying for £1 carriage paid.

STAR BRUSH CO., LTD.
EDEN GROVE, HOLLOWAY, N.7.



All Women are Possible Purchasers

of at least one of these splendid lines. Melba Toilet Preparations are being well and consistently advertised in the most important Press of the country.

Thousands of pounds are being spent now and thousands of pounds will be spent later, and we shall assist the pharmacists both individually and collectively to move their stocks.

MELBA TOILET PREPARATIONS

Write for Trade Terms and full particulars:

Sole Consignees : A. CONNELL & CO. 20 Bevis Marks, LONDON, E.C.3

The "FORT" Brand

PROPHYLACTIC TOOTH BRUSH

Each Brush packed in an Orange Carton, sealed at Factory, ensures Brush reaching customer in a clean and wholesome condition.

— In Three Sizes. —

WHOLESALE—

Full Size, 16/- doz.
Ladies' Size, 15/6 "
Children's, 11/6 "

RETAIL PRICE.

2/6
each.



- HARD.
- MEDIUM
- and SOFT.
- Also
- VERY HARD
- UNBLEACHED.

W. R. TILBURY & SON

Est. 1880

47 FRAMPTON PARK ROAD,
HACKNEY, LONDON, ENGLAND

Phone - - - 1794 Dalston

DEARBORN (1923) LTD.

—LONDON—

WE have frequently had instances brought to our notice of infringement of our well-known trade mark "MERCOLIZED," and whilst we have realised that every successful preparation will inevitably have its imitators, we cannot allow this practice to go unchecked.

We are therefore publishing the following apology, and should like it to be understood that any further case of unauthorised use of our trade mark will be the subject of legal proceedings.

An Apology and Undertaking

To Dearborn (1923) Limited.

I much regret that I should have infringed your Registered Trade Mark "MERCOLIZED" by the sale of "MERCALIZED" Wax in tins of the same shape as those used by you, and with a label the wording of which is in similar terms to that adopted by you, and I apologise to you for same and hereby undertake that I will not in future infringe your trade mark or sell or advertise for sale or procure to be sold any complexion wax in tins, boxes, or other receptacles bearing thereon any label, stamp or wording, nor will I issue or use any advertisement, trade mark, circular or other document so contrived or expressed as by colourable imitation or otherwise to represent or lead to the belief that any wax sold by me is the Mercolized Wax manufactured and sold by you. And I hereby authorise you to publish this Apology in such papers or in such other manner as you may think fit.

Dated this 5th July, 1923.

(Signed) MARK ANTHONY, Blackpool.

Established 1795.

LAUTIER FILS

Works : GRASSE (France) & BEYRUT (Syria).

Essential Oils—Synthetics.
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter,	Lavender
Angelica [S.A.P.]	Lemon
Basil	Mace
Bay	Melissa
Bergamot	Neroll big and Syn.
Bois de Rose femelle	Orange
Cajuput	Otto de Rose
Caraway	Patchouli
Cinnamon	Peppermint
Cloves	Rosemary
Copalba	Rue
Costus	Sandalwood
Cubeb	Spike Lavender
Fennel	Tansy
Geranium	Tarragon
Honey	Thyme
Hyssop	Vetivert

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London Bdg., S.E.1
Tel. Add. : " LAUTIERT, PHONE, LONDON." Telephone: Hop 2819.

LEICHNER'S
GREASE PAINTS
POWDERS
Etc.

Obtainable from
your Wholesalers
or direct from
VANITIES LTD.

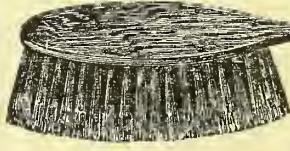
(Sole British Agents),
15a WHITCOMB STREET, LONDON, W.C.2

JAKSON'S
PEPPERMINT, LAVENDER
& CAMOMILE OILS
are the BEST.

Produced and Prepared by
THE LARGEST GROWERS & DISTILLERS
IN ENGLAND.

Distillery :
J. JAKSON & CO. (Mitcham Rd., 1921), LTD.
Mitcham Road, WEST CROYDON.

AGENTS for the U.K. :
F. NEWBERY & SONS, LTD.
27 & 28 Charterhouse Square, London, E.C.1


Titterton's Celebrated
HAIR
BRUSHES
 Tooth, Nail & Shaving Brushes
TITTERTON & HOWARD, Ltd., 8-10 Ct. Titchfield St., W.1.
Factory : Albion Works, Dalston Lane, E.8.

DODGE & OLcott CO.,20 MARK LANE,
LONDON, E.C.3.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.

BALSMAMS of Copaiaba, Peru, Tolu.

TONKA BEANS, Angosturas.

Phone—
CITY 2468.Telegrams—
"EGDARF, FEN, LONDON."



Don't imagine that Swandown only sells in July or during the hot weather—far from it—it is an all the year round proposition. In springtime Swandown is in demand. In summer and autumn the call is greater, whilst in winter—the dancing and party and social season—the demand is even more persistent.

Any chemist, no matter where he may be, can easily sell Swandown at the rate of one gross per month throughout the year, and more if he shows it conspicuously.

For a line that is nationally advertised and in every day demand it is merely good business to BUY AND

STOCK as heavily as possible whilst the July offers are available.

With a long profit line like Swandown, it is mistaken economy to withhold buying at least three months' supply while such profits are available. It does not deteriorate, and like Consols, is a safe investment with a sure dividend. A £10 order placed in July will give you a 76% profit.

Therefore to those many business chemists who appreciate the foregoing, we cannot give sounder advice than to get in whilst July is with us—you cannot do so later. Here are the offers, look at the profits.

OFFER No. 1

	P.A.T.A.
2 gross Swandown at 96/- per gross	Cost Price. £9 12 0
Less 7½% discount	£14 8 0
For window display :	—
2 dozen Swandown, free	1 4 0
200 samples, including 2 display cards and 24 small show cards, free ..	—
	£8 17 7
Less Cost ..	8 17 7
Profit ..	£6 14 5

Profit
76%

OFFER No. 2

	P.A.T.A.
1 gross Swandown at 96/- per gross	Cost Price. £4 16 0
Less 5% discount	£7 4 0
For window display :	—
1 dozen Swandown, free	0 12 0
100 samples, including 1 display card and 12 small show cards, free ..	—
	£4 11 3
Less Cost ..	4 11 3
Profit ..	£3 4 9

Profit
71%

OFFER No. 3

	P.A.T.A.
6 dozen Swandown at 8/- per dozen	Cost Price. £2 8 0
Less 2½% discount	£3 12 0
For window display :	—
½ dozen Swandown, free	0 1 2
50 samples, including 1 display card and 6 small show cards, free ..	—
	£2 6 10
Less Cost ..	2 6 10
Profit ..	£1 11 2

Profit
66%

Swandown

You will be wise to buy now all the Swandown your resources will permit, but don't omit to state the number of the offer (or offers) selected, the quantities in Pink, Cream, White; Flesh and Brunette required, and the colour in which you desire the bonus.

All sent carriage paid home along with the finest Showcards we have ever issued.

Manufactured by

HENRY TETLOW CO. PHILADELPHIA.

Sold and Distributed by

HENRY C. QUELCH & Co. 4-5 LUDGATE SQ., LONDON, E.C.4.

PAPIER POUDRÉ

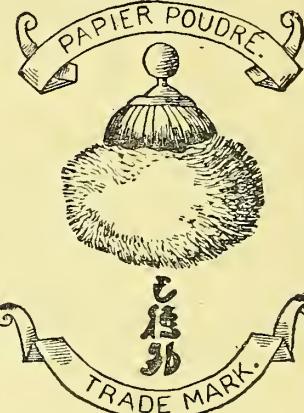
TRADE



MARKS

British Made Goods.

REGISTERED



Note our Trade Marks.

Papier Poudré Beware of
Spurious Imitations.

PAPIER POUDRE, LTD.,
46 Baker St., Portman Sq., London, W.1,
and at Paris.

WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets,
2/8, 3/9, 5/- and 10/- per doz. net, respectively.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per doz. net.

NOTICE TO THE TRADE.—We are now making a 3d. book
in WHITE, ROSE, and RACHEL Tints at 2/- per doz. net.

NEW LINES IN PAPIER POUDRÉ.

BOOKS IN WHITE ROSE and RACHEL TINTS, containing neat Mirror,
6d. size 3/9 per dozen net. 1/- size 7/6 per dozen net.

NEAT MIRROR CASES, 1/6 13/9 per doz. net.

REFILLS to Mirror Cases in White, Rose or Rachel, 4d. 2/8 per doz. net.

8d. SHAVING PADS, for Use after Shaving (unscented), white only ... 5/- per doz. net.

POPPŒA ROUGE

A most popular line.

(Regd.)

Made in booklet form. One size only, viz. 1/-, at 8/- per doz. net.

Mirror Cases 1/6, at 13/9 per doz. Refills for same 6d., at 3/9 per doz. net.

**PAPIER POUDRÉ, Ltd., 46 BAKER STREET,
PORTMAN SQ., LONDON, W.1**

How are your stocks of Ingram's Milkweed Cream?

This line is being advertised again, extensively.
The papers to be used include

Daily Mail

Daily Mirror

Sketch

Tatler

Eve

Queen

just the class of readers who make really
good customers !

A demand for Ingram's Milkweed Cream
will soon be in existence—are you in a
position to supply ?

The prices are : Retail, 2/- and 4/- per jar.
To Chemists : 18/- and 36/- per doz. respectively.
The prices are protected on the list
of the P.A.T.A.

SUPPLIES OF

Ingram's Milkweed Cream

CAN BE OBTAINED FROM

SANGERS

Wholesale Agents and Distributors

258 Euston Road, London, N.W.1

OR FROM YOUR USUAL WHOLESALERS.

4 out of 5

Do you realize that four out of five adult customers entering your shop suffer from Pyorrhœa?

Do you realize that Forhan's for the Gums both prevents and checks this disease and is therefore needed by *all* your customers?

Do you see the wide market open to you?

And the consequent importance of displaying our showcards in your windows?

Our year in, year out, national advertising is bringing customers to your doors.

Induce them across the threshold with a showcard!

And notice that periodically they return for fresh supplies of Forhan's for the Gums.

THOS. CHRISTY & CO.,
4-12 Old Swan Lane,
London, E.C.4.

Forhan's FOR THE GUMS

*More than a tooth paste
—it checks Pyorrhœa*



The HENNA CULT

of Hair Beauty, based
on the famous

EVAN - WILLIAMS
ORIGINAL

HENNA SHAMPOO

daily extends its boundaries, and is now a subject for popular journalism.

It pays to sell this famous line.

You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request.

Be sure to order



Wholesale only:
THE EVAN-WILLIAMS CO., LTD.
18 Ogle Street - LONDON, W. 1.

WOOLLEY'S LYSOL

ANTISEPTIC—DISINFECTANT.



Woolley's Lysol is a powerful Antiseptic Disinfectant, practically free from Carbolic Acid, but as a Bactericide $2\frac{1}{2}$ times as strong.

Being concentrated it is economical and inexpensive ; it is soluble in all proportions in alcohol, chloroform, ether and water, and forms a *clear* disinfectant fluid.

Woolley's Lysol is not destructive to clothing, does not corrode instruments ; whilst in the strength used for disinfecting and for bathing it *does not irritate or cause smarting*.

	4 oz.	8 oz.	16 oz.	32 oz.	$\frac{1}{2}$ gall.	1 gall.
1/0	.. 1/9	.. 3/0	.. 4/9	.. 7/6	.. 12/6	retail.
7/0	.. 12/0	.. 20/0	.. 32/6	.. 60/0	.. 99/0	per doz.
6/6	.. 11/0	.. 18/6	.. 30/0	2 gross 1/0	size or equivalent.	

PHENATE OF SODA SOLUTION

THE IDEAL TOILET ANTISEPTIC.

Invaluable as a Mouth Wash and for allaying tenderness of the gums after Teeth Extraction.

ANTISEPTIC and ASTRINGENT.



A Dentist writes : "I have found it invaluable in dental practice for syringing the sockets after removal of teeth which have been subject to an acute attack of *periostitis* ; the strength used is one part of the solution to 15 parts of hot water, the relief from intense pain being instantaneous.

MINIMUM RETAIL PRICE P.A.T.A.—

5 oz.	10 oz.	20 oz.	40 oz.	80 oz.
1/6	2/9	4/6	7/0	12/6 each.

TRADE PRICE—

5 oz.	10 oz.	20 oz.	40 oz.	80 oz.
13/6	24/0	39/0	60/0	104/0 doz.

Carriage paid on orders of £5.

JAMES WOOLLEY, SONS & CO., LTD.
MANCHESTER

DEARBORN (1923) LTD.

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	31/6	3/6
A face cream.		
STYMBOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
HARAPOSA ...	22/6	2/6
Nut oil shampoo.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.	
CLYNOL BERRIES {	36/- 4/-
For obesity.	58/6 6/6
SOFT PALERIUM ...	45/- 5/-
For wrinkles.	
LIQUID NAIL POLISH ...	10/- 1/-
Brilliant and lasting.	

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd, Cape Town, etc.
Sive Bros. & Karnovsky, Johannesburg.
India: FRAMJEE & SON, Bombay.
Smith, Stanistreet & Co., Calcutta.
New Zealand: SHARIAND & CO., Auckland & Wellington.
South America: DEARBORN (South America), Ltd., Calla Salta 264, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL, HALI, Ltd., Singapore.

HERE IS THE LINE you must surely have been looking for in order to increase your profits and meet your customers' ever-increasing demand.

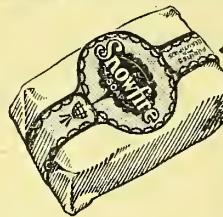
"GALJADO" SCURF LOTION

for all SCALP and HAIR TROUBLES.

Small size, 10/6 per dozen. S.P. 1/6 per bottle.
 Standard " 16/6 " S.P. 2/6
 Large " 33/- " S.P. 4/6 "

"GALJADO" TOILET PREPARATIONS are universally renowned, and are obtainable of all Wholesalers or direct.

Current price lists sent free on application to
THE GALJADO PERFUMERY CO., Ltd.
 9 Goswell Road, LONDON, E.C.1.



Write to-day
for terms.

F. W.
HAMPSHIRE
& CO., Ltd.,

Riverside Works,
Derby.

A Soap with the "SNOWFIRE" Prestige

"Snowfire" Soap will draw custom to your shop. Free from excess of alkali and containing the special emollient properties which have made "Snowfire" famous, it can be safely recommended for baby's delicate skin or as a toilet soap for the promotion of skin health for either sex.

**Snowfire
SOAP**

is well advertised, offers liberal profits and will prove a custom-drawing addition to your stocks.

"SAMBOY"

HAIR TONIC

is made from the purest materials which combined, provide a genuine tonic, unrivalled in its beneficial effect upon the hair and scalp. It is called "a wonderful grower," and may be used by young and old without harm; is especially good in relieving irritation, and cleansing the scalp. It preserves the colour of the hair.

To be obtained from maker on sale or return terms, but is a ready seller. Everyone likes "Samboy."

"SAMBOY," 22 STRAND, RYDE, I.W.

Dentists and
Doctors are
recommending

**Tiffin's
Dentabath**

Patent 182294. 30.5.21.

The perfect antiseptic bath for artificial dentures. Contains a 12 months' supply of antiseptic in tablet form. Add water. That's all!



Carries a good margin. Retails **4/6**

Dozen lots, 39/-, Carr. forward.
2 dozen lots, 39/- doz., Carr. paid.

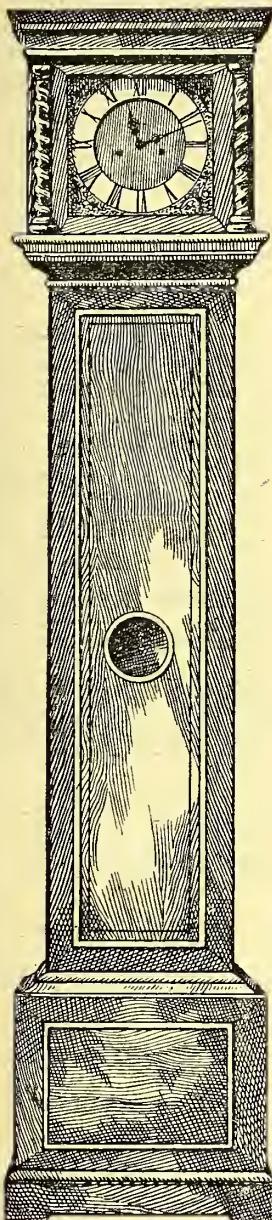
LONDON WHOLESALERS :

Watlick Bros., 6 Nile St., City Rd., N.

MAKERS : Tiffin's Dentabath, Ltd., 37c, King St., S. Shields.

D6

Antiques



The joy of Antiques is not in their age but in their CRAFTSMANSHIP.

In the 18th and early 19th centuries an employer and his workers were proud of their craft, not ashamed of production, as many are to-day, when Limited Companies in the rush for money have caused Factories to become an eyesore to the countryside.

An exception to this is the ADDIS WORKS, which is still an individual business, inherited direct from father to son since 1780—the age of craftsmanship.

Production for the money alone will never have the dignity of appearance of productions with the heart of the craftsman in them.

This is the secret of the appearance and quality of

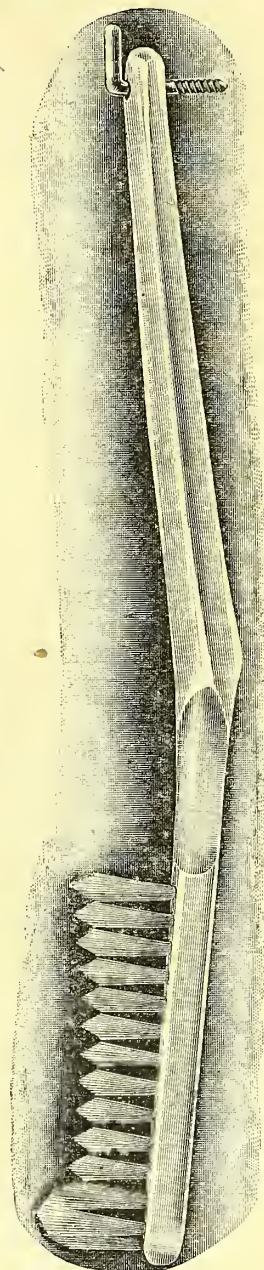
“ADDIS PROPHYLACTIC”

Reg. No. 593367.

BRUSHES.

A Factory whose workers' ambition is to maintain the craftsmanship held by their forbears.

Obtainable from all Wholesale Houses.



Reg. No. 593367.

ROBT. ADDIS & SON
Brush Works, Hertford.

Only a few more days—

in which to profit by the splendid Bonus Offer

CLEAVER'S TEREBENE Soap is a striking example of how value builds solidly for goodwill even without the aid of advertising. Cleaver's TEREBENE Soap has not been advertised in the Press for very many years, and yet through personal recommendation from one user to another, orders continue to flow in.

Special FREE Bonus Offer
OFFER "A"—on orders of
 2 dozen Boxes of 3-in. Terebene @ 12/6
 1 " Tabs. of Bath @ 75/-
 1 " Tins Talcum Cleaver - @ 10/3
 (COST 41/6)

We give you as **FREE BONUS**
 6 Tins (1/3) Talcum Cleaver
 12 Miniature Tins "
 24 Samples of Terebene Soap
 Lithographic Showcards.

A postcard brings full particulars of this profitable opportunity,

F. S. CLEAVER & SONS, Ltd.
Makers also of the famous Talcum Cleaver.



Now Terebene is being widely advertised and it will shortly be one of the most called-for toilet soaps on the market. Its fine quality and excellent value are absolutely beyond question—and by ordering now you get a really-worth-while Free Bonus Offer and some useful Free Samples.

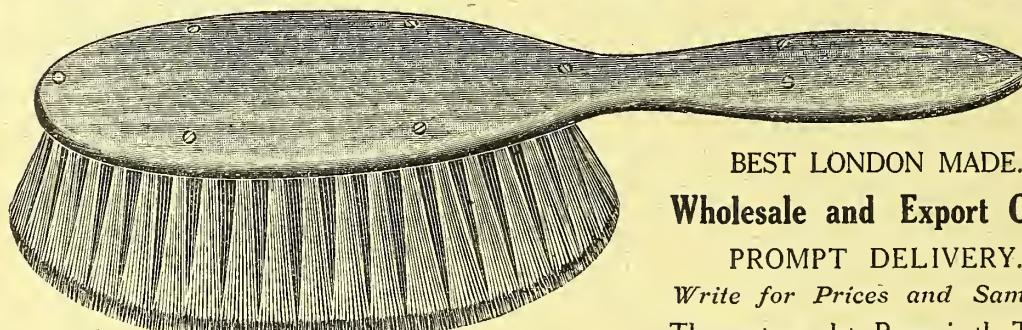
OFFER "B"—on orders of
 2 dozen Tins of Talcum Cleaver @ 10/3
 1 " Boxes of 3-in. Terebene @ 12/6
 1 " Tabs. of Bath " @ 75/-
 (COST 39/3)

We give you as **FREE BONUS**
 4 Boxes of 3-in. Terebene Soap
 12 Miniature Tins of Talcum Cleaver
 24 Samples of Terebene Soap
 Lithographic Showcards.

Order now and be ready for the increased demand.

TWICKENHAM, Mdx., Eng.
 ESTABLISHED 1770.

WHALEBONE HAIR BRUSHES



Also Polished Horn, Fin Bone (Extra Fine Whalebone)

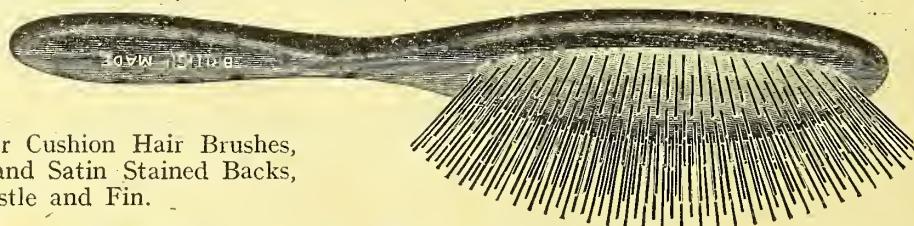
BEST LONDON MADE.

Wholesale and Export Only.

PROMPT DELIVERY.

Write for Prices and Samples.

The most complete Range in the Trade.



Rubber Cushion Hair Brushes,
 Rose and Satin Stained Backs,
 in Bristle and Fin.

JOHN FREEMAN, 10 Moor Lane, LONDON, E.C.2
 Wholesale Brush Manufacturer & Importer. Telephone: London Wall 1656. Factory: WALTHAMSTOW

These two cartons should be on every counter.

To obtain the full benefit of our extensive advertising campaign appearing in many of the leading papers throughout the country, we advise our customers to display this good selling line to advantage.

An attractive window display will be sent on request.



Dr. BUCHANAN'S Skin-Clear

A positive cure for all skin diseases—
Eczema, Barber's Itch, Bad Legs,
Pimples, Ringworm, Chilblains, etc.

1/3 tins (P.A.T.A.) Skin Clear - 10/- doz.

9d. tabs (P.A.T.A.) Skin Clear Soap 6/- doz.
(In cartons)

Supplies can be obtained through your usual wholesale house or direct from us.



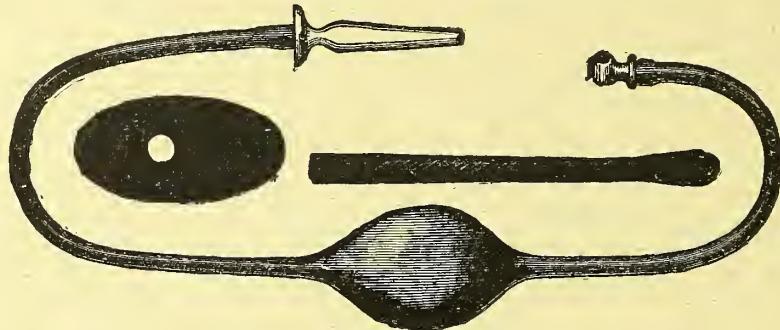
POTTER & CLARKE Ltd.

DRUG MERCHANTS & MANUFACTURING CHEMISTS
60, 62, & 64 ARTILLERY LANE LONDON E. I.
AND AT 24 LUNA STREET, GREAT ANCOATS, MANCHESTER.

SEAMLESS ENEMA

(WONDERFUL VALUE)

20/- doz.



20/- doz.

No. 1252.

No. 1252. The "SAFFRON," black polished, complete in card box, per doz. 20/-. This Enema is thoroughly reliable and will command a ready sale if brought to the notice of the public.

For orders of 3 dozen lots we will allow a special discount of 5 per cent.

CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.

A discount of 5 per cent. for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

BURGE, WARREN & RIDGLEY, Ltd. 91 & 92 Gt. Saffron Hill, London, E.C.1.

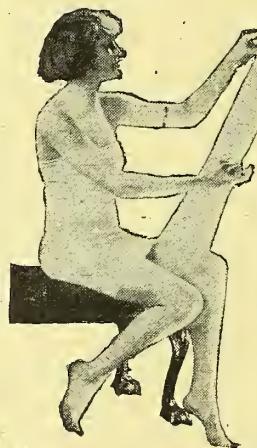
NOW
IS THE TIME TO
PLACE YOUR ORDER
FOR
**BATHING CAPS
SPONGE BAGS
HOLDALLS**

OUR LATEST PATTERNS AND
PRICES SENT ON APPLICATION

ARTHUR BERTON, Ltd.
15-17 Worship Street, LONDON, E.C.2.

MANCHESTER and GLASGOW.
26 Chapel St., Victoria Bridge. 84 Miller Street.
Telegrams: "Aybelim, Finsquare, London."
Phones: Clerkenwell 1347, 1348, 1349 (Private Exchange).

NORVIC
Regd.
CRÊPE BINDERS
are a selling line
you can't neglect.



Ideal for wherever support and elasticity are required. **ESPECIALLY IN MATERNITY.** All widths up to 11 inches.

Sole Manufacturers,
GROUT & CO., LTD.,
GREAT YARMOUTH.

London Agent—
T. S. Eastaway,
35 Wood Street, E.C.2.

ABDOMINAL BELTS

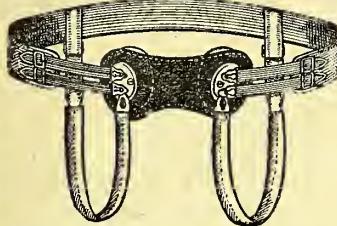


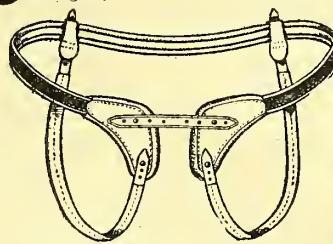
Fig. 60r. Inguinal Elastic Truss.

TRUSSES

SURGICAL SPRING AND
ELASTIC TRUSSES.
SEAMED AND SEAMLESS
ELASTIC HOSIERY.
ABDOMINAL SUPPORTING and
POST OPERATION BELTS.
SURGICAL CORSETS.
SUSPENSORY BANDAGES.

Telephone—RICHMOND 1557.

Fig. 64r. Peaked Head Scrotal.



ELASTIC HOSIERY

Makers to the Trade of every description of English, French and American Truss Springs.
Sole Agents for the United Kingdom of Great Britain, Ireland and The British Dominions
of the Celebrated

Fig. 19. Kidney Belt.

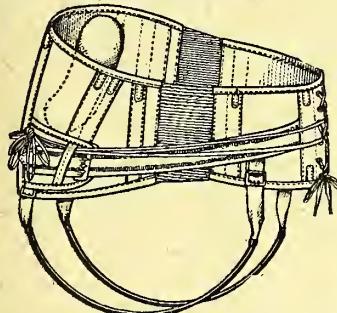
Crêpe Velpeau
Bandages.

Fig. 583.

THE
R. H. HEWARD Co.,
Crown Road Works,
TWICKENHAM.
Contractors to H.M. Government.

Richmond
Shoulder
Brace.

CREPE VELPEAU BANDAGES

THREE QUICK SELLING LINES

WHICH EVERY CHEMIST SHOULD STOCK.

**“NATIONAL”
ZINC OXIDE PLASTER**On 5-yard and 10-yard Spools.
All Widths.Strong. Pliable. Non-Irritant.
Very Adhesive. Keeps Indefinitely.**“NATIONAL”
SELF-ADHESIVE PLASTER**

On Spools or in Tins.

Two of the numerous Counter Packings
which sell at sight.

Write for Price List and Samples to—

A. DE ST. DALMAS & CO., LTD., LEICESTER.

WINDOW DISPLAYS

Now is the right time to display

Keene's One-Night Corn Cure

It will pay you well to do so

If bought on special bonus terms you are guaranteed 55% gross profit

Write for terms to:

Keene's One-Night Cures Ltd.
52 GRAY'S INN ROAD, W.C. 1.



KNOWN ALL OVER THE WORLD AS THE STANDARD LIQUID PLASTER.

TRADE PRICES.

Retail Price.	Trade Price.
10½d. Pocket Size...	8/5 doz.
2/- Medium Size	19/2 "
3/- Physician's Size	28/9½ "

£3 and up Carriage Paid.

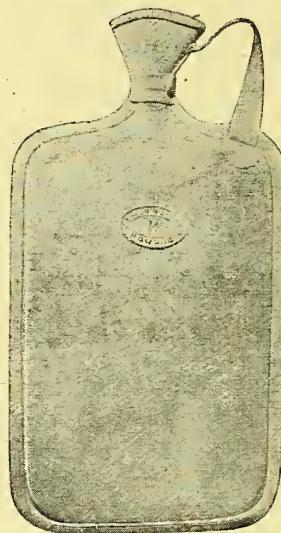
Order through your wholesaler or direct

Sole Agent for British Isles and Colonies—

J. E. GARRATT,
96 Southwark Street, London, S.E.1.

HOT WATER BOTTLES

Season 1923-24.



Place your order now and avoid danger of non-delivery or delay when season begins.

BEST
BRITISH
(HEAVY)
GREY :

Each	6×8	- 2/9
	6×10	- 3/-
	6×12	- 3 4/-
	8×10	- 3 6/-
	8×12	- 4/-
	12×10	- 4 6/-
	14×8	- 5/-
	14×10	- 5 6/-

RED :
add 33 1/3 % to above prices.

NO BETTER BOTTLE MADE.

THOS. SWALES

20/24 Butts Court & 89 Albion St., LEEDS.

PERFUMERS—SAVE LABOUR !

Headquarters for :

Vanishing Creams, Shampoo Powders, etc., in bulk or packed. Samples and prices on request. Makers of the "O-Pine-O" Toilet and Household Soaps. The special feature of these soaps is that they contain all the natural Glycerine.

A trial will convince as to the very high quality of these goods.
"O-PINE-O" MFG. CO., LTD., Montague Rd., Hornsey, London, N.8.

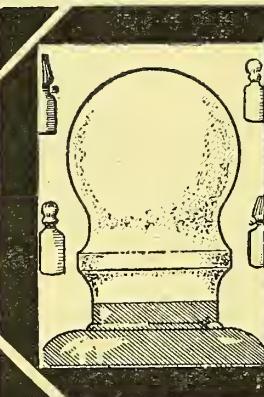
BOOKS FOR PHARMACISTS.

Send us a postal card and we will send you a 33 page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA, BOSTON 14, MASS., U.S.A.

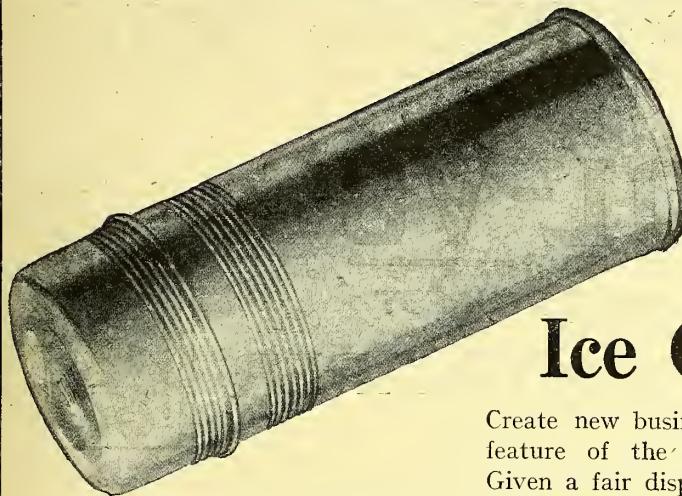


Do not fail to investigate the NEW and IMPROVED

VISKAP

SELF - FIXING
BOTTLE CAPS

Details from
THE VISCOSÉ
DEVELOPMENT Co., Ltd.
BROMLEY, KENT.
PROMPT DELIVERY.



THERMOS

Ice Cream Jars

"THERMOS" ICE CREAM JARS keep Ice-cream cold and firm for 24 hours—without the use of ice. They are finished in polished aluminium. Stocked in three sizes:
Half-pint, No. 002 .. sells at 10/-
Pint, No. 003 sells at 11/-
Pint-and-half, No. 004 sells at 15/-

Create new business this summer by making a feature of the "Thermos" Ice Cream Jars. Given a fair display, this line will attract a lot of attention and make worth-while sales. Each sale means a substantial profit too. And as the line does not compete with anything else you sell, the new business is *additional* business.

THERMOS

LIMITED

12-14 Denman Street, Piccadilly Circus, London, W.

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT.

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902,
by the Société d'Hygiène of France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

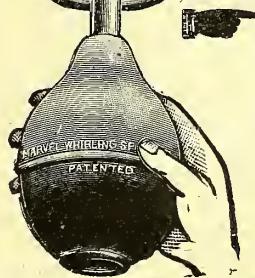
Fully Protected by Patents.



IT IS A MARVEL



You can safely recommend it.



Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

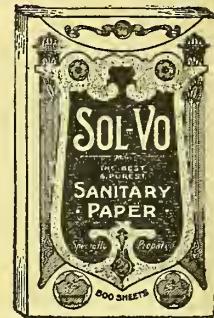
Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.
86 Clerkenwell Rd., London, E.C.1.

SOL-VO SANITARY ROLLS & PACKETS.



SOL-VO REGD. THE BEST & PUREST SANITARY PAPER



	per doz.
Three dozen Rolls	... 7/- net.
Half gross	" 6/6 "
One gross	" 6/- "
Five gross	" 5/3 "

CARRIAGE PAID.

	per doz.
Three dozen Packets	... 10/- net.
Half gross	" 9/6 "
One gross	" 9/- "
Five gross	" 8/3 "

CASES FREE.

FORD, SHAPLAND & CO. Ltd.

LABELS & SHOWCARDS — PRINTERS — CARTONS & ENVELOPES,
GT. TURNSTILE, HIGH HOLBORN, LONDON, W.C.1.

TELEGRAMS: FORSHAPCO. WESTCENT, LONDON.

TELEPHONES: HOLBORN 5503.
(CITY 65.)

REduced PRICES
BEST QUALITY CLINICAL LONDON MADE
THERMOMETERS

Tested and Stamped at N.P.L. Complete in Metal Cases.
2 min. Plain, per doz. 14/- 2 min. Lens Front, per doz. 15/-
1 1/2 " " 15/- 1 1/2 " " 16/- 1 1/2 " " 17/6

Send Order for 2 doz. and receive Attractive Showcard.

5% Discount for cash with order.
Special quotations for large quantities.

DAVIS & CO., Mortimer House, 41 Mortimer St., W.1
'PHONE: MUSEUM 3369.

Milner Cleaner
FOR
White Straw Hats

Carriage Paid Parcels.
6 doz. 10/- 12 doz. 19/- 3d.
13 to dozen for
cash with order.

Specimen Hat with 1 1/2 gross
Discount 20/- orders, 2 1/2 %;
£5 order, 5 %; £10, 7 1/2 %

Milner's Chemical Co., Robson St., Liverpool.

For GLASS BOTTLES

Write to

Fred^k Youldon

Formerly proprietor of E. YOULDON. Established 1840.

PORTLAND HOUSE,
73 Basinghall Street, LONDON, E.C.2.

'Phone: London Wall 3529.

Wires: " Youldon, Stock, London."

**ZEAL'S REGISTERED
Clinical Thermometer**

The REPELLO *requires no shaking down*
A 30-second pushed back in an instant.

**NEW IMPROVED
LENS FINDER**

The only Easy Reading Magnifying Clinical on the Market.
IN FOCUS

OUT OF FOCUS

The square mark engraved on lens front locates the Mercury column immediately.
SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.
SILVER MEDAL, INDIA, 1908. SILVER MEDAL, LONDON, 1913.
All Clinical Thermometers are supplied
N.P.L. Tested unless otherwise ordered.

G. H. Zeal, Ltd., 77 St. John Street,
Clerkenwell, London, E.C. 1.
Established 1888.
Wholesale Manufacturers of Clinical Thermometers.
Contractors to H.M. Government.
Telegrams: "Zealdom, Smith, London." Tel. No.: Clerkenwell 5202.

THE "JARASO"
Personal
Weighing Machine

British Patent No. 23493/1910

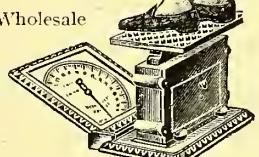
Weighs from 1 lb. to 20 stone.
The weight is reflected automatically in the mirror.

SIZE 11 x 7½ x 8 inches.
WEIGHT 19 lbs.

RETAIL PRICE REDUCED TO

45/- each

Liberal terms to Wholesale
Houses, Shippers
and Export Merchants for re-sale
in Great Britain,
Ireland and British
Colonies only.



All particulars from : For Men, Women, or Children.

ALBERT C. SHOPPEE, LTD.
(SOLE LICENSEES)

Bemont Street, Chalk Farm, LONDON, N.W. 1

**THE BEST
Toilet Roll**
VALUE IN THE TRADE



No. 1 THIN
Full 12 ounces.

**1 gross 65/-
5 ,@ 63/-**

CARRIAGE PAID.

Retail, 9d. each, 8/6 doz.

TWO SHOWCARDS FREE.

THE TIME TO ORDER: NOW !

Sample sheets on application.

SUTTLEY & SILVERLOCK
Ltd.
World's Label Printers,
BLACKFRIARS ROAD,
LONDON, S.E.1.

Hooker's

THE MALTED MILK WITH
THE NICEST FLAVOUR

The Chemists' recommendation is invariably accepted by the hesitant customer. To recommend HOOKER'S—whether for infants, for growing children, for the sick and convalescent, or for normal adults needing a beneficial auxiliary diet—is to justify confidence whilst profiting legitimately by it.

Thew, HOOKER & Gilbey, Ltd., Buckingham.

122

ATKINSON & BARKER'S INFANTS' PRESERVATIVE

THE BEST AND SAFEST INFANTS'
MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to R. BARKER & SON, Ltd.
13 Wesley St., C.-on-M., MANCHESTER.

DOES
NOT
CONTAIN
any
SCHEDULED
POISON.

You Cannot Buy Better!

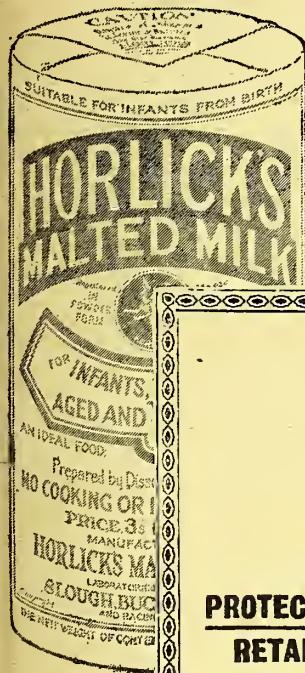
MALT EXTRACT MALT & COD LIVER OIL

Ask for
Samples
and
Prices.

Also in attractive Containers, with client's own name and address.

JEFFREYS, MILLER & CO., Ltd.

Leyland Mills,
WIGAN.



PRICE LIST

PROTECTED		Tablet Form only	Both Powder and Tablet Forms		Powder Form only
		Per Bottle	2/- 3/6	8/6 15/-	
RETAIL PRICE		Per Dozen	7/6 15/-	24/- 42/-	102/- 180/-

Wholesale Price - - less 20%

In £5 lots - less 20% & 5% In £10 lots - less 20% & 10%

Quantities must be figured nett after deducting all discounts.

We do not supply direct, or pay carriage on less than £10 parcels, and orders may include all sizes, but should be for full dozens of any sizes, except the 8/6 and 15/-, which may be included in less than dozens.

We reserve the right to supply in the fewest packages possible, but will endeavour always to meet the views of buyers in this direction.

Terms: 30 days nett. 1% for cash within 7 days from date of Invoice.

Made in England by

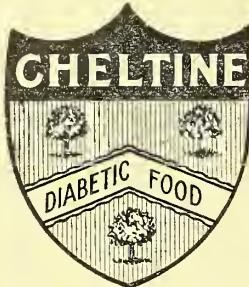
**HORLICK'S MALTED MILK COMPANY,
Slough, Bucks.**

*Attractive advertising matter for display
and distribution sent free and carriage
paid on application.*

**HORLICK'S
MALTED MILK**

The Original

DIABETES



The Cheltine and Manhu Foods for DIABETICS are now manufactured under one management at Cheltenham Spa, Eng., and

full particulars as to trade terms and supplies of advertising matter are gladly supplied on request to

THE CHELTINE AND MANHU FOODS CO.

Cheltine Works, 17 Cheltenham Spa, Eng.

“BEST
for
MOTHER
and
BABY”



DORSELLA MILK FOOD

Equals Grade “A” Milk
5 oz., 10 oz. and 16 oz. net. Decorated air-tight tins.
Retail Price .. 1/4, 2/- and 2/6.

2 oz. Samples free.
Liberal trade discount. Bulk in 56-lb. tins, 2 tins in crate, rail paid, at 11/2/- per cwt.

Manufactured by

PRIDEAUX'S FOOD ETC. COMPANY, LIMITED,

Pioneers of the Dried Milk Industry. Eight Creameries in Dorset, Somerset and Wilts.

London Office : 16 Southwark Street, S.E.1.

Send for Trade Terms and full particulars to :
PRIDEAUX'S FOOD etc. Co. Ltd.
MOTCOMBE, DORSET.

Pure Food Gelatine

Our entirely new works at Ghent produces gelatine of all grades conforming to the most severe Pure Food Laws of all countries.

Sole Agent for U.K., Colonies and U.S.A. :

PAUL INGENLATH,
Monument Buildings,
LONDON, E.C.3.

Phone :
Minories
2576.

Cables and
Telegrams :
“Ingenlath,
London.”

SOCIÉTÉ GÉNÉRALE BELGE DE PRODUITS CHIMIQUES
GHENT BELGIUM
Works also at
AISEAU - HEMIXEM(ANTWERP) & MORNIMONT

NEW ZEALAND HONEY “IMPERIAL BEE” brand

Packed in 1's and ½'s Glass & Monopots, etc.

Nature's own : Sweetmeat, Food, Medicine. Guaranteed pure. Stock the best and increase your trade.

The author of “Science of Eating” says :—

“We are lengthening life by modern sanitation, by saving infants, etc., while killing off men and women in the early forties with diabetes and obesity. For a hundred reasons, all of them compelling, let us eat less sugar and more Honey.”

A lady shopping on the South Coast told her grocer :—

“I didn't know Honey was so nice until I tasted ‘IMPERIAL BEE.’ I shall always keep it on the table now.”

Apply for full particulars and prices to :—

A. J. MILLS & Co., Ltd.,
Produce and Canned Goods Dept.,
14, TOOLEY STREET, LONDON, S.E.1
Sole European Agents for
THE NEW ZEALAND HONEY PRODUCERS' ASSN. LTD.

TRUFOOD



Continuous
propaganda to the medical
and nursing professions

THE list of media carrying whole page announcements of Trufood effectively covers the professional elements called upon to advise mothers as to the choice of an infant food. No organ of importance is omitted, and there are regularly used—*The Lancet*, *British Medical Journal*, *Nursing Mirror*, *Nursing Times*, *Medical Officer*, *Journal of State Medicine*, etc.

These advertisements are supported by personal calls upon doctors and nurses, and by constant circularisation and sampling. Every announcement carries the slogan:

OF ALL CHEMISTS

In 10oz., 20oz. and 36oz. tins
at 2/-, 4/- and 7/-

We count upon your support in creating goodwill with the buying public.

TRUFOOD LIMITED, THE CREAMERIES, WRENbury, CHESHIRE

London Offices : Lever House, Blackfriars, E.C.4

CO

GREENWICH OBSERVATORY TRADE MARK

BE READY FOR THE NEXT HOT SPELL

During one week of the recent Heat Wave (ending July 14th) one London Chemist's turnover in

G.O. Lemonade

Greenwich Lemonade
(Unsweetened)

Greenwich Lemonade
(Sweetened)

**G.O. Effervescing
Ginger Beer Powders**

G.O. Thirst Quenchers

G.O. Effervescing Saline
(Lemon Flavoured) in Bulk

G.O. Seidlitz Powders

was upwards of £40 in one shop and many chemists in different parts of the country cleared a £6 parcel in 2 to 3 days.

Drop a card for price list and Bonus Window Show terms, or see last week's "C. & D.", page 35.

**THE
GREENWICH LEMONADE CO.**
(J. MILNER, Proprietor)
11 JOHN PENN STREET,
LONDON, S.E.13

Phone : Greenwich 947.

You are sure of good sales when you stock—and show—

NATURAL HEALTH SALT.

The Original Health Salt of the World

It sells well at any time—but the demand is exceptional during Summer when it is first favourite as an effervescent thirst-quencher and blood purifier.

Natural Health Salt is the pioneer of all health salt—first on the market, and first to be packed in tins. For your trade it is right in every way—Quality, Price and Profit.

If you have not received particulars of the great Prize Distribution Scheme write now.

Wilkinson & Simpson Ltd.
NEWCASTLE-UPON-TYNE.



Phone :
138 Pendleton

Telegrams :
"Champagne Manchester."
ESTABLISHED 1855.

VIN. FERRICITRATIS, B.P.

"Lifos" Tonic Blood Wine

English Port Style

British and Foreign
Wines of all varieties
Bottles and Casks.

B. ROBINSON & Co. Ltd.

PENDLETON - MANCHESTER.

WRITE US TO-DAY AND COMPARE OUR PRICES.

The
Famous Natural Aperient Water.

Hunyadi János

An extensive advertising campaign is being continued in the Medical and General Press which is stimulating the demand for this well-tried **natural** Aperient Water.

Full supplies are once more being imported, and all orders can be filled without delay.

Prices to the Trade :

24/- per doz. large bottles	or 48/- per case of 25
18/- „ „ small „	or 72/- „ „ „ 50

Net, free delivery in London or any station in Great Britain.

Minimum Retail Prices :

2/6 per large bottle.	2/- per small bottle.
------------------------------	------------------------------

Hunyadi János has for more than fifty years been recognised as the best of the **NATURAL** mineral waters containing sulphate of soda and sulphate of magnesia. Its laxative action is sure but gentle : it stimulates the liver and cleanses the blood.

Many of your customers who already know its value will be glad to get it again. Others will want to buy it on the recommendation of their doctors, who constantly prescribe HUNYADI in preference to ordinary aperients, therefore it pays Traders to keep a stock of this famous **NATURAL** Aperient Water.

SMALL ATTRACTIVE SHOW CARDS AND WRAPPING
PAPERS FORWARDED ON APPLICATION.

Sole Wholesale Depot:

INGRAM & ROYLE, LTD.

BANGOR WHARF,

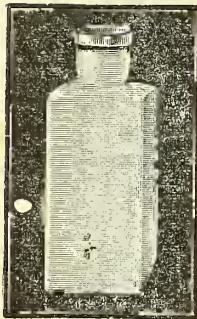
45 BELVEDERE ROAD
19 South John Street, Liverpool.

LONDON, S.E.1
Bath Bridge, Bristol.

Re—ORDERS FROM STOCK

We hold stocks of seasonable glassware, and if you will be good enough to advise us what you can do with, we will promptly deal with your enquiry. Quick delivery.

WHAT CAN WE QUOTE YOU FOR?



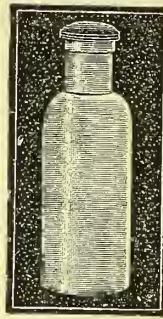
Cheltenham.

LIMES.
KALIS.
BRILLS.
TABLET
BOTTLES.
POMADES.
PANELS.



Narrow-Mouth Shop Round.

MEDICALS
VIALS.
TOBINS.
CANNONS.
TUBES.
&c.



Kali.

JULES LANG & SON
CHARLTON WORKS, CHARLTON PLACE, ISLINGTON, LONDON, N.1.

(Opposite Agricultural Hall.)

Telephone : North 2770-2 (3 lines).

Codes : A B C, 5th Edition. Scott's 10th Edition (1906). Bentley's Complete Phrase Code.

Telegrams : "Assorted, 'Phone, London."

Kleer Vue
Patent

ALL GLASS DISPLAY CASES

Make your Counters Sell your Goods.
Display your Goods in a Sanitary way.
Increase your Sales and Prevent Pillaging.
SEND FOR PARTICULARS.

HILL BROS. GLASS CO., LTD.
67, 68, 69 SUMMER LANE,
BIRMINGHAM
Tele : Central 3188.

BATH AND WEST OF ENGLAND COLLEGE
OF
CHEMISTRY & PHARMACY

Principal : D. J. WILLIAMS, B.Sc., Ph.C., F.C.S.

SPECIAL SHORT REVISION COURSE commences Aug. 8th.
LONG COURSE commences Oct. 10th.
MAJOR COURSE commences October 10th.
ENTRIES NOW BEING RECEIVED.

CORRESPONDENCE COURSES for Major, Minor, Apothecary Hall and Fairchild Scholarship at which over £195 has been won by Students of this College.
The Secretary, Bath & West of England College of Chemistry and Pharmacy, 5 and 6 Cleveland Place, E. Bath.

MANY SUCCESSES IN THE EXAMINATIONS!
Your Opportunity to
QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the Course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.) ; the British Optical Association (D.B.O.A.), or the National Association of Opticians (F.N.A.O.).

Write for full particulars—
C. A. SCURR, M.P.S., F.S.M.C., F.I.O., F.N.A.O., etc.
64 High Street BARNET (N.Z. Representative : C. AITCHISON, PALMERSTON Nth.)

WESTMINSTER COLLEGE OF PHARMACY.

Principals : G. S. V. WILLS, Ph.C. (Founder), P. H. WOODNOTH, Ph.C., F.C.S.

Revision Course for October Examination—
AUGUST 14th. Full Course and Evening Classes commence OCTOBER 9th.

For full particulars apply to the Principals,
190 CLAPHAM ROAD, S.W.9.

"*Making history to some extent—*"

THIS was the comment of the Chairman of the Birmingham Magistrates when it was shewn in a case heard on the 6th April, 1923, that the contents of a bottle had derived Arsenic and Lead from the glass of which the bottle was made.

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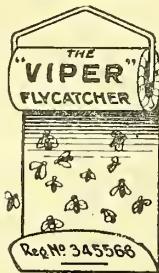
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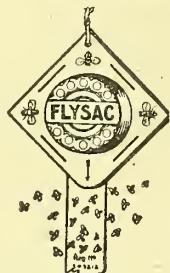
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2/6	1/8 .. 1/18 ..

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Enclosure sent to Wholesalers London Houses.
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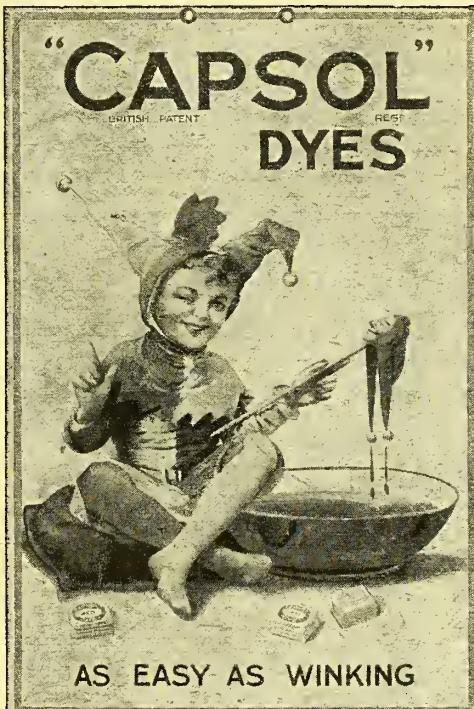
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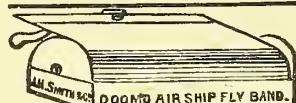
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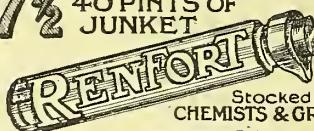
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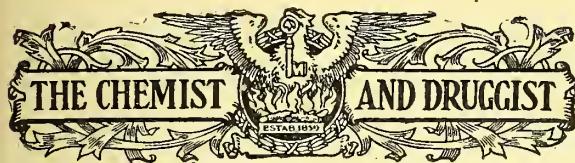
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Contents

No. 3	Series 2269	Vol. 99	
Association Affairs	96	Insurance Act Dispensing	98
Association of British Chemical Manufacturers	100	Irish News	76
Bankruptcy Reports	78	Keen Struggle	81
Births	87	Legal Reports	77
Books, New	92	Marriages	87
Business Changes	84	Modern Pharmacies.—I.	80
Cape' Pharmaceutical Society	76	Observations and Reflections	89
College Notes	88	Personalities	87
Coming Events	73	Pharmaceutical Botany	86
Company News	79	Pharmaceutical Society of Great Britain	94
Conference Notes	82	Pharmaceutical Society of Ireland:—	
Correspondence	106	Council Meeting	85
Dangerous Drugs Act Cases	78	Examination Results	85
Deaths	87	Photographic Notes	81
Deeds of Arrangement	77	Proprietary Articles Trade Association	97
Editorial Articles:—		Recent Patents	85
Finance Act	90	Sale of Pharmacy Vases	84
Specialties in Czechoslovakia	91	Scottish News	76
Linseed Oil	92	Summer Outing	93
English News	74	Trade Notes	88
Fairchild Scholarship	83	Trade Report	101
		Westminster Wisdom	95

Coming Events

Monday, July 23

British Pharmaceutical Conference and International Pharmaceutical Federation. Hotel Great Central, Marylebone, London, W. At 10 a.m., meeting of the Bureau of the Federation; 2 p.m., general meeting; 8.30 p.m., reception in the Winter Garden; 10.30 p.m., dance.

Tuesday, July 24

British Pharmaceutical Conference and International Pharmaceutical Federation. At 10 a.m., opening session; 11.30 a.m., ladies' excursions; 1 p.m., lunch; 2 p.m., ladies' excursions; 2.30 p.m., afternoon session; 7 for 7.30 p.m., banquet; 10.30 p.m., dance.

Wednesday, July 25

British Pharmaceutical Conference and International Pharmaceutical Federation. 9.30 a.m., morning session; 10.30 a.m., ladies' excursions; 1 p.m., lunch; 2.30 p.m., closing session; 4 to 6 p.m., garden party in Royal Botanic Gardens; 8 p.m., Welsh concert at Queen's Hall.

Thursday, July 26

British Pharmaceutical Conference and International Pharmaceutical Federation. At 10.40 a.m., excursion to Oxford; at 8.30 p.m., smoking concert in the Winter Garden, Hotel Great Central.

Friday, July 27

British Pharmaceutical Conference and International Pharmaceutical Federation.—Sports day.

Summary of this Issue

The more notable items only are dealt with

The Week's News

Prosecutions of chemists for supplying "dangerous" drugs are reported on p. 78.

The first of a series of descriptions of modern pharmacies (p. 80) deals with Heppell's new shop at Brighton.

The sports event of the week is the golfing match between Manchester and Liverpool, which is reported on p. 81.

The Shops (Early Closing) Act, 1920, is one of the Acts included in the Expiring Laws Continuance Bill. (p. 95.)

The annual meeting of the Proprietary Articles Trade Association is reported on p. 97. At a subsequent meeting of the council Mr. J. A. South was elected President.

Interesting details are given on p. 84 of an important sale of Hispano-Moresque faience, which included some rare pharmacy pots. An illustration is given of six of these pots.

The names of fifteen pharmaceutical chemists and 264 chemists and druggists who have passed the recent examinations of the Pharmaceutical Society of Great Britain are given on pp. 94-95.

The results of the examination for the Fairchild Scholarship and Prizes are given on p. 83. Mr. A. M. Crowe wins the scholarship, and the prizes are awarded to Mr. E. A. Eccles (England), Mr. R. J. Martin (Ireland), Miss A. F. McTavish (Scotland), and Mr. R. V. Lloyd (Wales).

Mr. Kenneth M. Chance, at the annual meeting of the British Cyanide Co., told the shareholders that the company are now installing a plant for the fixation of atmospheric nitrogen, and that a process for the manufacture of potassium permanganate by electrolysis has also been perfected. (p. 79.)

Articles and Communications

Among the dispensing difficulties dealt with (p. 107) are two examination prescriptions and a troublesome hair lotion.

The British Chemical and Dyestuff Traders' Association give useful advice to traders with occupied Germany. (p. 74.)

Correspondents among other subjects write regarding the vindictive prosecutions of chemists by the Home Office, the cost of living, and apprenticeship. (pp. 106-7.)

"X-Rayser II" discourses pleasantly on the Oxford Botanic Garden and the excursions to Belvoir and Port Sunlight. Apprenticeship and "dangerous" drugs are other subjects. (p. 89.)

The Finance Act received the Royal Assent on July 18. We give on p. 90 some details of the Act, in which several important changes were made in the final stages in the House of Commons.

The notes on p. 82 regarding the forthcoming International Congress of Pharmacy and British Pharmaceutical Conference give a list of papers to be read, some particulars of the sports day, and portraits (with biographies) of the Italian delegates.

Trade and Market Matters

Linseed oil is likely to be an uncertain market during the second half of the year, for reasons given on p. 92.

The trade in santonin is again reverting to British hands, the original consignees having concluded a contract with the Russian Government. (p. 105.)

The extension of the London dock strike is impeding business this week, and it is difficult to obtain delivery of goods. Buying is quite hand-to-mouth, and the few changes are mostly in favour of buyers, these including the bromides, salts, salicylates, phenacetin and phenazone (p. 107.)

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

The Royal Society

We announced some weeks ago that the sum of £100,000 was placed at the disposal of the Royal Society by Sir Alfred Yarrow for the endowment of research. At its council-meeting, held on July 5, the Society decided that several professorships shall be founded, of a type similar to the Foulerton professorships, founded by the Society in 1922 for research in medicine. The professors will be expected to devote their whole time to scientific research, except that they may give a limited course of instruction in the subjects of their research to advanced students. The intention of the Society in founding these professorships is to recognise research as a definite profession.

Trade with Occupied Germany

Among the matters dealt with in the latest "Bulletin" of the British Chemical and Dyestuff Traders' Association is trading with the Occupied Territories of Germany. A few weeks ago, it will be recollect, notices were issued advising British importers they could obtain delivery of all goods from the Occupied Territories ordered before February 20 last. The German exporter had to get a licence from, and pay a duty to, his Government, and the British importer had to get a licence from, and pay a tax to, the Franco-Belgian authorities. When these regulations were complied with it was understood that there would be no difficulty in getting such goods through. Unfortunately, in the numerous instances in which members of the British Chemical and Dyestuff Traders' Association have applied for Franco-Belgian licences and signified their willingness to pay the tax it has been found that in practice the facilities mentioned above were worthless. Some firms have gone to the length of sending representatives over to endeavour to obtain release of their goods, but after some weeks they have met with very little success. These members have reported to the Association that throughout the Occupied Territories the French authorities dominate the position and that the British representatives are entirely subservient; that it is all too evident that the French authorities have little desire to issue licences and so obtain revenue; that their attitude clearly points to a determination to block all trade between Germany and this country. They express the opinion that until a settlement of the Reparations question is made there is little or no hope of carrying on business, either export or import, with Germany (Occupied Territories). Appeals to the British representatives on the Rhineland High Commission and to the authorities at home have proved useless.

Inquest

An inquest was opened on July 14 by Dr. Waldo, coroner for the City of London and Southwark, on the body of Ernest G. Wright, an employee at a metal foundry in Holland Street, S.E. The mother of the deceased stated that he was on night duty during the prolonged thunderstorm of July 9-10, and that on returning home his skin was very yellow and he was scarcely able to stand. He died in Guy's Hospital on July 12. Dr. Thomas Rose, who made a *post-mortem* examination, said there were marked yellow injections of the whites of the eyes, and the skin was copper-coloured all over the body. He was of opinion that death was due to heart failure, the result of dissociation of the blood, and thought the condition was due to poisoning by arseniuretted hydrogen. Questioned by the coroner, Dr. Rose said that T.N.T. poisoning was quite different from this case. Witness added that he was sure it was not a case of poisoning by sulphuretted hydrogen. The house physician at Guy's said that when the deceased was admitted witness thought it was a case of acute poisoning, and arsenic and T.N.T. were suggested. The patient was extremely collapsed and his skin was of a chocolate colour, indicative of arsenical poisoning. Mr.

Alfred Munday, chief metallurgist at the foundry, said they had bags containing printers' dross, consisting of 85 per cent. of actual metal, the remainder being oxides plus sweepings. During the storm a great quantity of water got into the foundry. Wright was probably helping other men to put the material in bags. In the three years witness had been manager they had had no previous cases of poisoning. Arseniuretted hydrogen was not evolved without the presence of an acid. The inquiry was adjourned for an analysis to be made.

Sale of Food and Drugs Acts

The public analyst to the Monmouthshire County Council has reported that in two samples of cocoa examined he found 0.12 gr. and 0.14 gr. respectively of arsenic per lb. Following representations, the manufacturers have secured the withdrawal of remaining stocks. The analyst remarked that 28 lb. of the cocoa must be consumed before a fatal dose would be reached.

The current report (No. 259) of the medical officer of health for the City of London contains the following results of analyses of tinned spinach recently received from Holland:—

	Copper calculated as crystallised copper sulphate		Tin	
	Per cent.	Grains per pound	Per cent.	Grains per pound
Quart sample ..	0.069	4.85	0.03	2.10
Half-gallon sample ..	0.078	5.46	0.044	3.08

Distribution of the consignment in question has, accordingly, not been authorised.

Birmingham

Extensive damage to stock was caused by flooding during the storm on July 14 at the pharmacy of Mr. M. Goodman, 162 Aston Road.—At another pharmacy, use was made of the compusory absence of custom to dress the windows.

At Birmingham Assizes, on July 14, a boy named Norman Roberts was awarded £1,050 damages and costs against the Brownhills Chemical Works Co., Brownhills, in respect of injuries sustained. In addition, his father was awarded the agreed sum of £170. The lad was cycling behind the defendants' lorry which, it was alleged, stopped suddenly and reversed, inflicting severe injury.

Hull

Members of a local society were shown much that was of interest on their recent visit to the works of Major & Co., Ltd., tar distillers, Sculcoates. All the latest systems of distilling were seen, and it was shown how crude carbolic acid, creosote, and other derivatives are produced.

The Hull city coroner gave an interesting description of various methods of self-extinction at an inquest held the other day. He said that years ago salt of lemon was all the rage, then there was the gas-oven epoch, and (of more recent popularity) the "hanging by muffler" method. One that was widespread a good many years ago was "death by matches"; the would-be suicide steeped some matches in a cup of water and drank the solution.

Liverpool

Mr. Benjamin Best is on holiday in the Isle of Man. Mr. H. C. Tristram is managing for the executrix of H. A. Smith (Birkenhead).

The supply of vacuum flasks continues to increase, and likewise the ingenuity in the classification and display.

The welcome fall in temperature has been accompanied by a surprise to pharmacists—a demand for cough mixture:

J. Harrison & Co. (Liverpool), Ltd., Cunard Buildings, Liverpool, have applied to the city council for a licence to sell agricultural and horticultural poisons.

Mr. F. A. Boggiano (President of the Liverpool Pharmacists' Club), the manager for Mr. T. M. Lloyd (Garston), has been taken into partnership from July 1.

Besides the four official delegates whom the Liverpool branch is entitled to send to the London Conference,

about twenty members and their wives will attend, many extending their visit by some days.

The Dangerous Drugs Act is not beloved by most of the people concerned in the administration. One official, on entering a pharmacy the other day, and finding there had been no sales of any of the scheduled articles, remarked: "It is a pleasure to find a blank sheet."

Manchester

The visit of Mr. Gerald Gibbs to Cottonopolis was quite an historic event.

The news of the death of Mrs. John H. Robinson, Liverpool (*C. & D.*, July 14, p. 51), was received by Mr. Robinson's many friends in Manchester with sincere regret.

At Manchester City Police Court, on July 12, John Maxwell (36), whose occupation was not stated, was remanded on a charge of being in unlawful possession of 375 tablets of "prepared opium."

Is it a fact that the golfing pharmacists of Merseyside are hoping that a certain member of the Manchester Pharmacists' Golfing Society will be otherwise engaged when they meet Manchester next spring?

We are indebted to a correspondent (11/7) for sending us some quatrains, on the FitzGerald model, taken from "The Rubaiyat of the Panel Doctor," a vivacious parody by Miss Ellen Fowkes. The following is an excerpt:—

Think in this over-crowded Surgery
Whose Doors are ever open, Night and Day,
How Patient after Patient with his ills
Abode an Hour or two and went his way.

The Moving Finger writes: and, having writ,
Moves on: nor all thy Piety nor Wit
Shall lure me on to tell what I've prescribed,
Nor can you Read a single Word of it.

In Manchester County Court, on July 13, a verdict for £7 was given against Frederick Barrington, grocer and general dealer, Mill Street, Bradford, Manchester. The case for the plaintiff, Mrs. Margaret Reynolds, was that she sent her daughter to the defendant's shop for a dose of castor oil. By mistake the defendant sent camphorated oil. Mr. and Mrs. Reynolds smelt it, and, thinking they detected eucalyptus, sent the little girl back again with the oil. Barrington said it was all right. In order to make the oil palatable, Mr. Reynolds squeezed the juice of an orange into it; plaintiff swallowed it, and shortly afterwards had fits. The liability was admitted. Dr. Thompson, Ashton New Road, said this was the first case in England of a human being having taken camphorated oil. There had been a few cases of poisoning of the kind in America, but none in this country. [The annual reports of the Registrar-General for England and Wales show that, from 1881 to 1920 inclusive, the number of deaths from taking camphor in various forms, including camphorated oil, is:—Accidental, 46; suicidal, 16.—
EDITOR.]

Newcastle-on-Tyne

The business of Mr. A. D. Hunter, chemist and druggist, 268 Westmorland Road, has been taken over by Mr. Percy Dagg, chemist and druggist.

A branch shop at 227 Welbeck Road, Walker-on-Tyne, has been opened by Mr. J. N. Davison, chemist and druggist, 205 Chillingham Road, Newcastle.

Portsmouth

Mrs. Gall, a keen botanist, collected and classified 120 specimens during the course of the recent Selborne outing.

Invitations to attend several of the social functions of the British Medical Association's forthcoming meeting have been received by pharmacists.

The annual meeting of the Portsmouth Pharmacists' Association deserved a better attendance of members. Balance-sheet and reports showed much activity and hard work by officials.

The local historical pageant has been running this week. The Mayor (Alderman F. G. Foster, chemist and druggist), who put the scheme in motion, is chairman of

the Higher Education Committee, and the fifteen hundred artists are drawn from the teaching staffs of the town. His worship hopes it will bring more trade, and his colleagues handling drugs say "Amen."

Sheffield

The premises of Charles Cridland, Ltd., Queen Street, have been damaged by an outbreak of fire.

Cole Bros., Ltd. (now owned by Selfridge & Co., Ltd.), are to open a drug department in charge of a chemist.

Old students of Dr. Robert B. Greaves, chemist and druggist, the late chief of the Sheffield College of Pharmacy, will regret to learn of his ill health.

The flooding caused through the recent heavy rain did considerable damage in the cellars of Mr. H. G. Williams, The Moor.—Mr. Ernest Preston, Ph.C., arrived home after a holiday just in time to save his house from fire caused by the same storm.

Miscellaneous

Poisonings.—Cases of fatal poisoning recorded since our last report include suicides by means of a nicotine horticultural preparation, lysol, and a cyanide.

A BRIEF STRIKE.—On July 13, a strike of half-an-hour's duration occurred at the Vauxhall works of Schweppes, Ltd., aerated-water manufacturers. Certain increases of wages were then granted by the directors, and resumption of work was at once agreed upon.

COST OF LIVING.—It is announced by the Ministry of Labour that, on June 30, the average level of retail prices of all commodities taken into account in Ministry of Labour statistics was about 69 per cent. above that of July, 1914, showing no change for the past month.

CRICKET.—The annual trial of strength between the Bethnal Green and Ware branches of Allen & Hanburys, Ltd., took place on July 14, at Ware Mills, cricket and tennis matches being played. At cricket Ware could only score 24 to the 104 of Bethnal Green. At tennis the competition was keener, and resulted in some very good fights, Bethnal Green being finally victorious by six matches to three.

FIRE.—An outbreak of fire occurred on July 13 at the shop of Mr. R. E. Baldry, chemist and druggist, 330 Portobello Road, London, W.10. The damage was slight, and the origin was found to be an escape of gas.—On the same day, a fire broke out at 78-82 Wellesley Road, N.W.1, occupied by De Roos, Johnson & Co., chemical merchants. The fire was confined to the back area and the roof of a shed.

DANGEROUS DRUGS ACT CASE.—At Clerkenwell Police Court, London, on July 17, Katherine Fryer (51), described as a nurse, was charged with having obtained 120 gr. of morphine sulphate from Mr. John Walker, chemist and druggist, Judd Street, W.C., by means of a forged prescription. The accused pleaded "Guilty." Remarking "I can see you are a lady of education," the magistrate placed her on probation with a condition as to residence in a suitable institution.

SOCIETY FOR THE PREVENTION OF VENEREAL DISEASE.—The annual meeting of the Society for the Prevention of Venereal Disease was held in London on July 13. The chairman (Lord Willoughby de Broke) moved a resolution accepting the Treveithin report (*C. & D.*, June 23, p. 876), as a document supporting the essentials of the policy of the Society, and declaring its opinion that "the law should be altered so as to permit properly qualified chemists to sell *ad hoc* disinfectants, provided such disinfectants are sold in a form approved and with instructions for use approved by some competent authority."

ASSOCIATION OF BRITISH EXHIBITORS.—As a result of a meeting held at Cannon Street Hotel, London, E.C., on June 28, it was unanimously agreed to form the "Association of British Exhibitors." A provisional committee was elected, comprising representatives of some of the most important exhibitors in the United Kingdom.

Articles of association are now being drawn up, and the committee are anxious to put into the hands of all who exhibit full particulars of the aims and objects of the Association. The provisional secretary is Mr. E. O. Balmford, Association of British Exhibitors, 69 Victoria Street, London, S.W.1.

FERTILISERS AND FEEDING STUFFS COMMITTEE.—The Minister of Agriculture and Fisheries has appointed a Departmental Committee to inquire into the operations of the Fertilisers and Feeding Stuffs Act, 1906, to advise whether any, and if so what, amendments are necessary in order to render the execution of the Act more economical and effective, and to report. The Committee consists of Lord Clinton (chairman), Mr. E. Richards Bolton, F.I.C., F.C.S., Mr. E. G. Haygarth Brown, Mr. Charles Crowther, M.A., Ph.D., Mr. Thomas Kyle, Mr. Brian S. Miller, Mr. George Stubbs, F.I.C., Mr. J. F. Tocher, D.Sc., F.I.C., and Mr. J. A. Voelcker, M.A., Ph.D., F.I.C. Mr. H. J. Johns, Ministry of Agriculture and Fisheries, 10 Whitehall Place, London, S.W., has been appointed secretary to the Committee.

IN THE COURTS.—At the recent Surrey Assizes, Patrick Joseph Honan, medical practitioner, found guilty of performing an illegal operation at Croydon, was sentenced to eighteen months' hard labour.—At Blackburn, on July 16, three boys aged respectively sixteen, fifteen and fourteen, were each fined 20s. for breaking into the Phoenix Chemical Works and stealing sarsaparilla and other articles. It was stated that the lads admitted turning on the tap of a tank of cough mixture, which was found to have flowed down to the basement of the building, resulting in a loss of more than £250.—In Lambeth County Court, London, on July 17, Mrs. Edith G. Norrington was awarded £12 damages against Louis Kosky, costumier, Camberwell Road, S.E., for having sold her a coat with a fur collar which, it was alleged, had caused dermatitis. A medical man from King's College Hospital stated in evidence that between thirty and forty such cases had been treated there.—At Lewes Assizes, recently, Archibald W. Weir, described as a chemist, was found to be insane and unfit to plead in a charge of shooting with intent to murder: he was ordered to be detained during his Majesty's pleasure.—In the Court of Appeal, on July 18, the appeal of the plaintiffs in the case of Parke's Drug Stores, Ltd., v. W. F. Edwards & Son, Ltd. (*C. & D.*, March 31, p. 426), was dismissed, with costs.—At Marylebone Police Court, on July 18, George Leeming was remanded on a charge of breaking and entering into Bute's Pharmacy, 51A High Street, Camden Town, N.W., and stealing cameras and other property valued at £75.

Scottish News

Brevities

Gibbs' Gift Week is being held in the Dundee district from July 16 to 20.

Mr. William Carnegie, chemist and druggist, has commenced business at 91 Barnton Street, Stirling.

Mr. J. C. Michie (from Davidson & Kay, Aberdeen) has acquired the business in High Street, Nairn, formerly carried on by the late Mr. James McIntosh.

Mr. George Sinclair—lately associated with the firms of Frazer & Green, Ltd., Glasgow, and H. C. Baillie & Son, Edinburgh—has purchased the business carried on for many years by Mr. J. Hume Fairbairn at 6-8 Eastgate, Peebles.

Edinburgh

Pinkerton, Gibson & Co., Ltd., manufacturing chemists, in a circular to their clients, state that they will be able to execute all orders as usual from July 18 (*C. & D.*, July 7, p. 5).

Glasgow

The usual monthly rink game of the Glasgow Pharmacy Club was played on July 10 on Mount Florida bowling green, the use of which was kindly granted for the

occasion by the directors. Although heavy rain fell during the forenoon, the afternoon was ideal. Six rinks took part in the game, the winners of the club prizes being the rink skippered by Mr. Logan (Messrs. McNicol, Gowans, and Moffat), with a total of 28 shots against Mr. Simpson's 18. Other results were: Mr. D. G. Mackenzie 23 against Mr. Jarvie 18, and Mr. Michie 20 against Mr. Houliston 15. Mr. McNicol presented the prizes.

Irish News

The Coming Question

The Ministry of Home Affairs for Northern Ireland has requested the Chemists' and Druggists' Society of Ireland, the North Irish Pharmacists' Association, and the Ulster Retail Drug Trade Association to send representatives to a conference in Belfast on July 25 to consider the present position of the trade consequent on the change of government. It is doubtful whether the Pharmaceutical Council of Ireland, owing to recent legislation, has jurisdiction in the six counties of Northern Ireland, but matters have been allowed to drift on without anyone raising the issue. The Home Office, however, has been confronted with certain difficulties that have arisen in the administration of the law and is examining the position. It cannot be said that among pharmacists there is any widespread demand for a separate pharmaceutical society for Northern Ireland, but the feeling among druggists is the other way about. The Home Office is anxious to co-operate with the trade in the matter, but will, of course, insist on the law being observed. The matter is a subject of considerable controversy, and a definite ruling will be welcomed as putting an end to possible irregularities.

Belfast

At the Claims Court, on July 11, in an application for £3,000 compensation, by Wm. Doig & Co., wholesale druggists, for the burning of stock, fittings and fixtures at their premises, 39 to 45 Mill Street, on June 30, 1922, a decree by consent for £665 was given. The premises were set fire to during the Sinn Fein burnings.

Pharmaceutical Society of Cape Province

A GENERAL meeting was held in the Society's rooms, Capetown, on May 23. The chair was occupied by Mr. M. W. Clancy (President), and among those present were Messrs. Froembling, W. P. Asher, H. C. V. Gardner, A. Ross, W. A. Slegg, T. J. Hughes, Hoffman, and the secretary (Mr. Buxton). The secretary read a letter from the secretary of the Orange Free State Pharmaceutical Society regarding Section 8 (c) of the draft of the Food, Drug and Disinfectants Bill, which section is apparently directed against counter prescribing, and reads as follows:—

No person shall sell any mixture or compounded food or drug without fully informing the purchaser at the time of sale of the fact and nature of the mixture, unless conspicuously labelled showing the proportion of the ingredients. This shall not apply to a mixture supplied by a pharmacist for immediate consumption on the premises.

The secretary of the O.F.S. Society intimated that his Society had decided to endeavour to obtain deletion of the words "for immediate consumption on the premises" from the Bill, and requesting the Cape Pharmaceutical Society to bring influence to bear regarding the matter. After discussion it was resolved to communicate with the Minister for Public Health in support of the O.F.S. Society. Regarding the Patent Medicine Stamp Tax Mr. Clancy said that Mr. Hughes and himself had represented the Society at the interview with the Minister of Finance, and had also given evidence before the select committee which was dealing with the matter. On the suggestion of Mr. Slegg it was decided to hold the Society's meetings in future on Wednesday instead of Thursday evenings. Dr. Froembling severely criticised the recent Qualifying examinations, when only one candidate passed out of nine.

Legal Reports

Workmen's Compensation Act Case.—In the Mayor's and City of London Court, on July 2, Stephen Roncari, platen-machine minder, claimed compensation against W. P. Griffiths & Sons, Ltd., printers, Old Bailey, E.C., for injuries incurred while working for the defendants. Mr. W. Shakespeare appeared for the plaintiff, and Mr. Harold Brandon for the defendants. It was stated that the plaintiff had been in the employment of the defendants for over twenty years, and that during that time he had been absent on two or three occasions through illness. He attended St. Bartholomew's Hospital as an out-patient, and then it was discovered that he had double wrist drop and foot drop as the result of lead poisoning caused through using printing ink and coming into contact with leaden frames. He now found that he was totally incapacitated. The plaintiff said he had to use printing inks of several colours, some of which contained white lead. He also handled leaden frames in sending them down to the foundry. Henry Gallon, defendants' overseer, who said he had been with them for thirty-nine years, gave evidence to the effect that plaintiff's work was mainly with black ink, which contained very little lead. He also used bronze, blue and violet inks, which also contained but little lead. Witness had never known of a case of lead poisoning arising through the use of printing ink. The fumes which were said to have affected the plaintiff were almost unnoticeable. Mr. Thomas Barry, F.C.S., said that during ten years' experience of printing inks he had never known a case of lead poisoning to arise in that way. There might be 0.1 per cent. of lead in some black inks, but there was not more than 0.2 per cent. Plaintiff had to use a yellow insoluble powder which contained from 40 per cent. to 50 per cent. of lead. His honour said he was satisfied that the plaintiff was suffering from lead-poisoning as certified by the surgeon under the Act, and he awarded him 35s. a week until further order.

A Disputed Cancellation.—In the Mayor's and City of London Court, on July 11, Mr. Alfred Benjamin, trading as the General Manufacturers' Agency, 6 and 7 Redcross Street, E.C., sued Stone Ballantine, Ltd., 13 Well Court, E.C., for the sum of £85 12s. 6d. for balance of account for 100 gross tubes of nail polish. Mr. Picciotto appeared for the plaintiff and Mr. Gerald Dodson for the defendants. A counter-claim for £40 8s. 11d. was raised. Defendants said that they delivered to the plaintiff 528½ yards of material to make into puff boxes and paid him £25 in respect of the making. The number of bags to be made and delivered was 12,936. Plaintiff only delivered 10,539 bags. Out of those delivered, 2,898 were so badly made as to be utterly useless. Mr. Picciotto said that the claim was for damages for non-acceptance of the goods. The contract price was £112 10s., of which defendants had paid £26 17s. 6d. The difference between that and the market price to the date of the breach was £33 15s., which reduced the claim to £51 17s. 6d. Defendants were wholesale suppliers of chemists. On July 18 they sent to the plaintiff an order for nail powder in metal sprinklers as per sample. They came from Germany. After certain deliveries defendants asked plaintiff not to deliver any more. There had been a verbal order for 200 gross tubes. Plaintiff agreed to get them gilded at 3s. 6d. per gross. As the defendants had not taken the balance, the present claim was made. Defendants said that the order was cancelled, but plaintiff said he had never acquiesced in that. There was a new contract for 25 gross, and that had nothing to do with the 100. Mr. Dodson urged that the contract was cancelled because plaintiff said he could not get delivery. Then he said he was getting some through, and defendants said they would take them if they could place them. They took some. Mr. Picciotto said that the defendants delivered silk to the plaintiff to make up into ladies' Dorothy bags. Now they complained that there was a shortage in the silk. Judge Shewell Cooper found for the plaintiff for £51 17s. 6d. on the claim, with costs, and for the defendants on the counter-claim for £21, with costs.

The Price of Salt.—In the Mayor's and City of London Court, on July 6, a claim was made by F. W. Berk & Co., Ltd., chemical merchants, Fenchurch Avenue, E.C., against Mr. R. B. Burford, salt merchant, 363 Bethnal Green Road, E., for £16 12s. for salt supplied. The defendant raised a counter-claim for damages by reason of the plaintiffs supplying him, he alleged, with inferior salt containing insoluble matter. Mr. S. Davey, counsel for the plaintiffs, said there was no dispute that the plaintiffs had supplied the salt: the real point in dispute was upon the defendant's counter-claim. The damages claimed, however, were too remote. The defendant, in support of his counter-claim, said that in January last the plaintiffs' agent offered him English salt, which was going cheap. He arranged to place orders for it. He commenced to place orders and to supply his customers, who complained that the salt was foreign, not English. He (defendant) never placed orders for anything but English salt. In cross-examination, the defendant said there was no need to tell anyone it was English salt, because that was understood. It was untrue that the plaintiffs' salesman told him it was foreign salt. He would not say that English salt was much more expensive than foreign salt. He did not agree that the price of English salt was 70s. per ton, and that he must have known it was foreign salt from the price he paid. Mr. C. E. Walpole, director of the Maltin Bakeries, Ltd., said they did business with the defendant, and in the early months of the year they bought some fine sifted salt from him. It was not specified to be English. They had occasion to complain of the salt supplied by reason of grit being found in the bread and traced to the salt, and they had ceased dealing with the defendant. Cross-examined: They paid 70s. per ton for the salt delivered, and 80s. to 85s. would be a fair comparison in price for English salt. There were salt merchants who were in the Salt Union, where prices were artificially maintained. The defendant was outside that Union, and able to sell at a lower price. Mr. Henry Hiron, traveller for the plaintiffs, said that when the samples were left with the defendant he was told that it was Continental salt. The price of foreign salt at the time was 48s. a ton ex wharf, and the price of English salt was 64s. ex wharf. After hearing other evidence, Judge Shewell Cooper said it was quite clear the plaintiffs were entitled to judgment for the amount claimed. He was satisfied on the evidence that the defendant was told and knew quite well that what he was buying was Continental salt. As to the insoluble matter said to be in the salt, after what he had heard in evidence that would appear to be one of the risks of buying Continental salt. The counter-claim failed, and judgment was entered for the plaintiffs on the claim and counter-claim, with costs.

Deeds of Arrangement

Weaver, Eric Gustav (trading as Weavers), druggists' sundriesman, Clarence Street, Wolverhampton.—Dated July 2; filed July 6. Liabilities, unsecured, £1,100; estimated net assets, £285. Trustee: H. B. Pearson, 52 Queen Street, Wolverhampton. Composition of 3s. 6d. in the £, payable within three months.

Gazette

Bankruptcy Acts

RECEIVING ORDER

Fawssett, E. T. (trading as T. Lemale & Co.), 51 Great Marlborough Street, W.1, now residing at 16 Denbigh Street, S.W., dental manufacturer.

MANUFACTURE OF COCAINE.—The July number of "La Science et la Vie" contains an interesting article on the manufacture of cocaine and of stovaine, profusely illustrated with views of the apparatus used in the various stages of extracting the alkaloid and in the preparation of its synthetic substitute.

Dangerous Drugs Act Cases

At Marlborough Street Police Court, London, on July 13, Mr. Alfred John, chemist and druggist, trading as Rouse & Co., Wigmore Street, W., was again summoned for having dispensed a certain prescription purporting to be a prescription for the supply to Julian Pinder of morphine sulphate and atropine sulphate, the defendant not having taken reasonably sufficient steps to satisfy himself that the prescription was genuine (*C. & D.*, June 30, p. 899). Mr. Travers Humphreys prosecuted (instructed by Mr. Herbert Muskett) for the Commissioner of Police, and Mr. L. A. Byrne defended (instructed by Mr. Steele Wilson). Answering Mr. Byrne, Detective-Sergeant Frank Lewis said that the defendant had carried on this well-known business for a considerable number of years at Wigmore Street. Mr. Byrne: Is he the only chemist who has supplied dangerous drugs to Pinder?—No, sir. How many chemists have supplied him with dangerous drugs?

—It is hard to say; several I know of. The Magistrate (Mr. Mead): How do you know?—I have inspected the registers. Dr. Harold Antoine Des Voeux, Buckingham Gate, and Lymington, Hampshire, identified Julian Pinder, who was brought into court on a Home Office order, as a former patient. He prescribed morphine and atropine only once for him, he believed in 1910, for bronchitis and asthma. The prescription produced was not signed by him, and the initials and address on it were both wrong. Mr. Byrne submitted that the whole of the evidence showed that certain drugs were dispensed by a person at this establishment, but not by the person summoned, and that, therefore, there was no case to answer. Mr. Mead: You say that the proper person to be summoned is the youth who actually supplied? Mr. Byrne: Yes. When this particular legislation was drawn up, the legislature never contemplated that the master could be held responsible for the act of the servant. Mr. Mead said that Mr. Byrne had made his submission very ably, but his worship thought there was sufficient evidence to make defendant responsible under the Section in question. Mr. John, who pleaded "Not guilty" and reserved his defence, was formally committed to the London Sessions, his own recognisances of £250 being accepted.

At Newport, Mon., on July 18, summonses were heard against Mr. Francis C. Wilson, chemist and druggist, Caerleon, and Miss Lydia Emily Davis, 27 West Park Road, Newport, for whom Mr. Wilson is manager. The former was summoned for dispensing a prescription containing a "dangerous" drug, without taking sufficient steps to satisfy himself that the signature on the prescription was genuine, on March 13, 19 and 27. There were other summonses for failing to mark prescriptions with the date on which they were dispensed. Miss Davis was similarly summoned. Mr. S. M. T. Burpitt prosecuted, and Mr. Pitt Lewis defended. Mr. Lewis, on behalf of Mr. Wilson, pleaded "Guilty" to a technical offence. Mr. Burpitt having opened the case, Detective Cox said he called at 29 Commercial Street and made inquiries from Miss Davis, who replied, "I don't do anything with prescriptions. Mr. Wilson is my manager, and a qualified chemist, and he does that." He afterwards saw Mr. Wilson, who went to his file and handed witness the three prescriptions produced. They were not dated, and were endorsed with the name "A. W. Williams," with an address in Liverpool. There was no Dr. A. W. Williams, Liverpool, given in the Medical Directory. When Mr. Wilson was told that he had apparently committed an offence, he replied that he had not seen that part of the Act relating to the doctor's signature, and that he had entered the dates in his register, which he thought sufficient. In reply to Mr. Lewis, witness said that the prescriptions were properly kept. The chairman asked how these alterations in the law were made known to the chemist. Mr. Burpitt replied they were officially published in the "London Gazette," but they no doubt appeared in the trade papers. Mr. Lewis said that the alterations were made on a Friday, and the alleged offence was on the following Monday, so that that did

not leave much time for them to become known. Dr. Howard Jones stated that the prescription showed that the amount of cocaine present was 18.5 times the margin allowed. For a first dose it was unusually strong, but if the patient had been using cocaine preparations for eyewash it would not be too strong. In reply to Mr. Lewis, Dr. Jones said the prescriptions had every appearance of being genuine. Mr. Wilson, in evidence, said that when the prescription was taken to him he remarked that it was rather a lot of cocaine. The man replied that he had had it served before. Witness then went to his book, and found that a similar prescription had been served on February 23. He copied the prescription in his book, put the date on it, and on the back of the prescription placed a number which had reference to the date in his book. That, he thought, was sufficient. When the man went to him first, he said that he was an engineer, and was working under a certain light which produced a glare and made his eyes very painful. After the last prescription had been made up, the man went back and said he had broken his bottle, and wanted more. Witness became suspicious, refused to supply without another prescription, and had not seen the man since. In reply to Mr. Lewis, witness said this was a common eye lotion, though the strength varied. Miss Lydia Emily Davis said that she carried on the business after the death of her brother, but never had anything to do with prescriptions or the sale of medicines or poisons. She employed Mr. Wilson to do this for her, and he, in fact, conducted the business for her, and she took the profits. Mr. Lewis submitted that there was no case against Miss Davis, as she had not dispensed the prescription. This was not a case in which an employer was liable for the act of an employee. This was not a charge of selling, but of dispensing. In regard to Mr. Wilson, he had been the victim of a cocaine maniac, who had previously victimised seven or eight chemists at Barry, and a number of chemists at Cardiff and Swansea. The man was now undergoing imprisonment for having been found with cocaine on him. The forgery, if it was a forgery, was a very clever one. The chairman said this was the first case of this description at Newport. Undoubtedly Mr. Wilson had committed a technical breach of the Act, and he would be fined £1 in each case, or £6 in all. In regard to Miss Davis, the magistrates could not say she was not responsible, and she would have to pay 5s. costs in each case—30s. in all.

Bankruptcy Reports

Re William Percy Rookes, Station Hill, Eastleigh, described as a chemist. The public examination of this debtor took place at the Southampton Bankruptcy Court on June 20. In the statement of affairs the gross liabilities were shown to be £1,732 4s. 5d., and the deficiency £665 1s. 11d. The debtor stated, in reply to the Official Receiver, that he was formerly dispenser to a doctor. He purchased the business at Eastleigh, in 1919, at the agreed price of £300, no accounts being prepared or valuation made. He borrowed the money from the bank, but had in addition about £100 of his own, which was gradually absorbed into the trading account. Later he bought the leasehold premises, the money being again advanced by the bank against the deposit of the deeds and a guarantee. Though he had never taken stock in order to ascertain the value of the business he thought he had paid an excessive price for it, and in order to carry the business on he had borrowed from money-lenders. Statements which had been made to the money-lenders were put before debtor by the Official Receiver, and debtor admitted that some of them were not true. The figure of £422 stated as the net loss was, said debtor, an estimated one. Trading during the year ended August 31, 1921, showed a profit of £448, and for the following year there was a profit of £315; debtor could not account for the heavy loss which had occurred since. The Official Receiver said it would be necessary to have an amended account prepared. The examination was closed subject to the signing of the notes and to the amending of the deficiency account.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

GIFFEN CHEMICAL CO., LTD. (P.C.)—Capital £3,000. Objects : To carry on the business of manufacturing chemists, etc. Solicitors : Anderson, Fyfe & Littlejohn, 201 West George Street, Glasgow.

BRITISH INTERNATIONAL INDUSTRIES, LTD. (P.C.)—Capital £1,000. Objects : To acquire, develop and turn to account chemical, manufacturing and other formulæ, processes, industries and patents, whether of British, American or other origin, etc. R.O. : 3 and 4 Clement's Inn, London, W.C.

O. SICHEL & CO., LTD. (P.C.)—Capital £12,000. Objects : To carry on the business of manufacturers of and dealers in photographic apparatus, materials and accessories, electrical, optical and scientific instruments, etc. Solicitors : H. Oppenheimer, Nathan & Vandyk, 1 Finsbury Square, London, E.C.

DANIEL REES, LTD. (P.C.)—Capital £500. Objects : To take over the chemist's business at 188 High Street, Swansea, from the execs. of C. Thomas. The first directors are : G. E. Rees, 188 High Street, Swansea ; Miss K. H. Rees, 188 High Street, Swansea ; Mrs. A. L. Dorrell, Linden House, Monk Street, Abergavenny ; and A. A. Keall, 16 St. George Terrace, Swansea, chemist and druggist. R.O. : 188 High Street, Swansea.

FOOT COMFORTS, LTD. (P.C.)—Capital £6,000. Objects. To acquire a sole licence for the sale or manufacture of the pneumatic orthopaedical sole "Pneumette" and trade marks connected therewith (*inter alia*) in Great Britain and options to purchase the same ; to adopt an agreement with J. D. Marshall ; and to carry on the business of manufacturers of and dealers in anatomical, orthopaedic and surgical appliances, boots, shoes, saddles for cycles, indiarubber goods, etc. The directors are : J. D. Marshall and E. H. Pearson. R.O. : Sardinia House, Kingsway, London, W.C.

MAJOR & CO., LTD.—The profit for 1922 was £30,402, plus £2,140 brought in. The directors recommend a final dividend of 4½ per cent on preferred ordinary shares, making 8 per cent, and a dividend of 10 per cent. on ordinary shares, carrying forward £2,443.

TJILWOENG JAVA PLANTATIONS.—At the annual general meeting, held at 5 Fenchurch Street, London, E.C., on July 10, Sir Edward Rosling, who presided, said the amount of cinchona harvested showed a considerable reduction on the previous year's figures. The great disappointment was having to refund the large sum of £7,006 on account of the previous year's sales (*C. & D.*, July 14, p. 43). The company's bark was all sold to an English syndicate, but the price was based on that paid by the Cinchona Association in Holland. This price was not definitely known for many months after the close of the year, but an estimated amount was paid on each shipment as it took place. The board expected to receive a further sum when the final accounts were made up.

FULLER'S EARTH UNION, LTD.—In the Chancery Division of the High Court, London, on July 3, Mr. Justice Lawrence heard a petition by Fuller's Earth Union, Ltd., for the sanction of the Court to a scheme of arrangement between the company and its members which involved a reorganisation of its capital. Mr. Hecksher, for the company, stated that its present capital was £98,331. The preference shares, which had all been issued, remained as they were, while the issued ordinary were to be converted into preferred ordinary, and the founders' shares into ordinary shares. The capital was to be increased to £122,853 10s. by the creation of 24,522 new ordinary shares of £1 each and one share of 10s. Out of undivided profits of £24,636 10s., these new ordinary shares and 114 unissued ordinary shares would be paid up and distributed. His lordship sanctioned the petition.

BRITISH CYANIDES, LTD.—At the annual meeting, held at the Cannon Street Hotel, E.C., on July 18, the managing director, Mr. Kenneth M. Chance, said that "We have now overcome the last difficulties in respect of the manufacture of permanganate of potash by electrolysis, and new plant for the manufacture of that chemical is in course of erection at the Tat Bank works and should be in operation very shortly after the holidays. Our new works scale experimental house has also enabled us to prove out the manufacture of another chemical for which there is a good market, and it is only a question of time before we shall add this to the growing list of new processes that we are establishing ; but I expect that the opening up of the permanganate plant and that for the fixation of atmospheric nitrogen will keep us rather too busy to take up any other work for the next few months."

THE SOUTH LONDON MANUFACTURING CO., LTD.—A meeting of the creditors of this company was held recently at Cross Keys House, Moorgate Street, E.C. The chair was occupied by Mr. S. E. Smith, who stated that the shareholders had passed the usual resolution in favour of voluntary liquidation and had appointed him to act as liquidator. The statement of affairs showed liabilities of £1,433, of which £495 was due to the trade and other creditors, the balance of £938 being in respect of a bank overdraft. The assets were estimated to realise £1,081. The assets consisted of plant, machinery and fixtures, estimated to realise £100 ; furniture valued at £50 ; lease of premises expected to produce £500 ; book-debts estimated to realise £381 ; and stock-in-trade £50. The liquidator reported that the company was registered on February 25, 1919, with a nominal capital of £10,000. The company had carried on business at a loss. Owing to the fact that the firm specialised in the manufacture of soap, the plant was only suitable for similar firms and it was very difficult to obtain offers for such assets. He did not think it was possible to dispose of the business as a going concern, as the premises were not very extensive or suitable for such a business. He was of the opinion that the creditors would receive 10s. in the £. The company had been financed by Messrs. Pellatt, who were substantial creditors, but they had waived their claims. A resolution was passed confirming the voluntary liquidation of the company with the present liquidator.

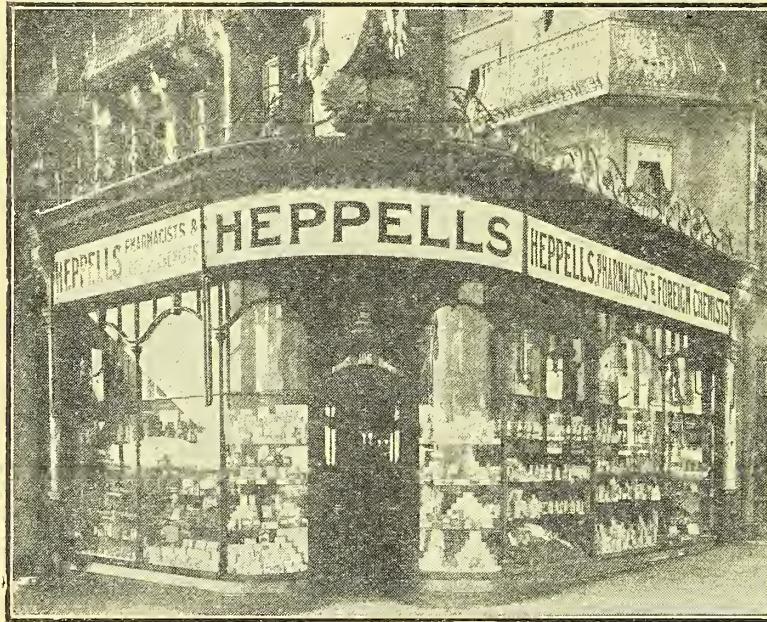
BRITISH PHOTOGRAPHIC INDUSTRIES, LTD.—The net income for the year ended April 30, 1923, was £293, plus balance brought forward £24,399. The sum of £24,000 has been applied to writing down of investments in subsidiary companies, leaving £692, which the directors recommend be carried forward. The directors regret to say that trading of subsidiary companies as a whole resulted in a loss. This loss, which was not nearly so serious as in the previous year, is due to a further fall in prices and consequent depreciation of stocks, and also to general depression in trade and consequent reduction in turnover, particularly in export markets. This depression has, unfortunately, not yet passed away, although there are now some indications of improvement. No interest has been charged to subsidiary companies on advances made to them by the company. In view of the fact that the value of investments in subsidiary companies is undoubtedly less than the cost at which they stand in books, the directors have, after consultation with the auditors, thought it advisable to transfer £24,000 from credit of profit-and-loss account to investments in subsidiary companies account, thus writing down book value of these investments by that amount. The directors feel that this gives a truer statement of the position, as the sum in question could not, under present circumstances, be considered to be available for dividends. The auditors, in their report, state : The amount shown as being the value of the investments in the subsidiary companies—namely, cost price, less amount of £24,000 written off—is, in our opinion, in excess of their present value, mainly owing to trading losses incurred during the past two years and the consequent depreciation of goodwill.

Modern Pharmacies

HEPPLELS AT BRIGHTON

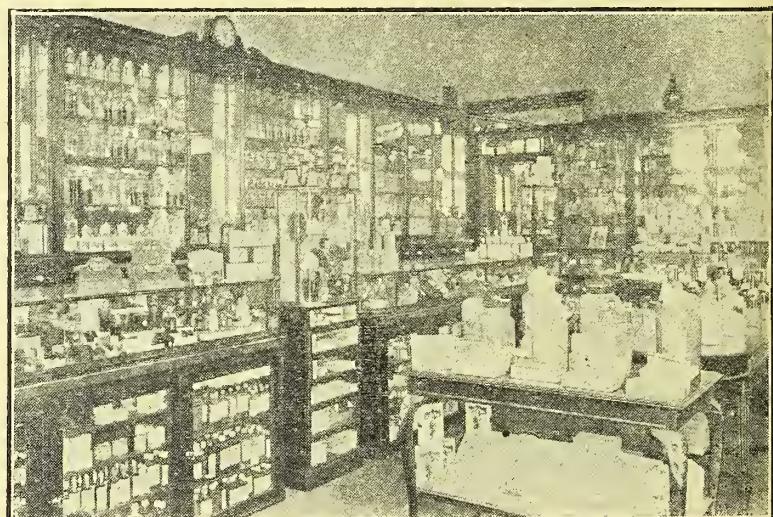
HEARING that Heppells, the well-known firm of West End pharmacists, had just opened a branch at Brighton, a C. & D. representative motored down the other day to learn more about it. The pharmacy in question is practically in the centre of the Brighton Front, and undoubtedly occupies the most prominent and commanding

mahogany, as are all the fittings throughout the shop. They are fitted with $\frac{1}{2}$ -inch heavy plate-glass display shelves, while in the top of the enclosure in the Cannon Place window are placed three large specie jars. The serving counter consists of two flat-topped plate-glass cases each 11 feet in length, and between them is centred a handsome upright case devoted to high-class perfumery. Immediately behind the counter are wall fixtures, in the centre of which is a let-in clock, and on the top of the fixtures is a range of a dozen old-fashioned black demijohn show bottles with gilt caps, bearing gilt labels of such drugs as pluv. jalapæ, rad. gentianæ, rad. rhei, etc. The serving counter cases contain an extensive range of the many specialities and proprietaries of Heppells, also the high-class toilet creations of Felix Boissard, of Paris, and Alexis Guerin (perfumer to the late Russian Court), for which the firm are the sole British agents. The complete series of the Maison Boissard include perfume, face powders, toilet soap, bath soap, bath salts, bath dusting powder, sachets, eau de toilette, face cream, etc., the get-up of which it would be hard to beat for variety and elegance. Ki-uma, an ointment for rheumatism, neuritis, etc., placed on the market by Commander Percival, D.S.O., R.N.R. (for which Heppells are distributors), is something new, and which is being freely advertised. In the centre of the floor space in the interior are two large white enamelled display tables, from which customers can select their morning "pick me up" à la Piccadilly, or perhaps some prefer a bromo-seltzer or a saline. Kalek (a new carbonated alkaline table water) is also in evidence. The second table is largely devoted to Heppells' bath crystals (lavender, lilas, etc.) in show jars, also bath tablets, bathoids and mousse de Chene (oak-moss) soap, the latter being packed in visitors', toilet and bath sizes. The subtle perfume of oak-moss is compelling and one that will appeal to the most fastidious. A bent-glass showcase with service space at the end of the pharmacy finishes off the interior. The window sections are devoted to displays of Urillac preparations for rheumatism, etc., Mael-mær tablets for all forms of sea, train and air sickness. There is also a fine selection of high-class English-made hair, nail and



No. 106 KING'S ROAD, BRIGHTON

position on what is regarded as the finest promenade at any seaside resort, No. 106 King's Road being at the corner of Cannon Place, abutting the Hôtel Métropole, of which building it is really an annexe; almost adjoining is another palatial hotel—the Grand. The premises taken over by Heppells were recently vacated by a firm of jewellers, so that they have been easily adapted to conform to the requirements of a high-class modern pharmacy by the firm's own shopfitters. We give a reproduction of the interior and exterior, which gives some idea of what the premises are like, although the pictures do not do justice to the boldness of the frontage, which altogether extends to 40 feet; the base of the frontage being of polished granite lends an air of distinction to the premises. There is a mosaic-floor entrance in the doorway, and above is a large double-faced eight-day clock, illuminated at night, which "hits one in the eye" as it were. The windows are rounded off at the entrance with bent-glass corners at both sides, and this section at the time of our visit was solely devoted to a large display of Clarke's bath thinning salts, which cannot fail to attract the eye of the Brighton belle. The interior of the pharmacy, which is almost square in shape, is 18 feet in length, with a height of 15 feet from floor to ceiling. The windows are fitted with air-tight enclosures, the two sections of the King's Road window each having a length of about 5 feet 6 inches and a height of 10 feet, the Cannon Place window having three similar sections. These enclosures are of solid polished



PART OF THE INTERIOR

other toilet brushes. In another section of the window is a display of Boissard Siva perfumery, photographic and Kodak goods. Dispensing, which will be a special feature of the business, is carried out entirely in a separate room, 12 feet in length by 9 feet in width, adjacent to the pharmacy, and which at the time of our visit was being fitted up with all the necessary appliances and stock of galenicals for dispensing "scripts" of all nationalities. Beyond the dispensing-rooms are the stock-rooms, which carry a large and varied stock of American and Continental proprietaries, while the basement is used for storage of bottles, etc. The whole pharmacy is heated by a number of hot-water radiators, and electrically lighted from the ceiling by fixed bulbs inserted into rosettes of dulled steel.

In a progressive business such as Heppells it is essential to move with the times and lose no opportunity of development. That is why it was found necessary to open a branch at Brighton, as quite a number of the firm's West End *clientèle* have residences in the vicinity or at Hove. The proprietor of Heppells (Mr. John E. Jewell, M.P.S.) had frequently been approached on the matter by customers, and it is only necessary to add that the branch will be conducted in all respects on the distinctive lines of their West End businesses. In fact, the Brighton branch, when fully completed, will mark an important addition to the ten pharmacies already established, and is likely to be a good example of the forward policy which the firm of Heppells are adopting. Mr. I. J. Charles, from the 26 Piccadilly branch, who gained his Continental experience with Roberts & Co., Paris, is the manager, and, judging by the nature of his surroundings, he has good scope for the outlet of his abilities. To him we are indebted for the photographs accompanying this article.

Photographic Notes

By a Pharmaceutical Camerist

CHECKING DEVELOPING AND PRINTING

The practice of giving the customer a receipt, other than a number identical with the one attached to the spool, I have not found generally adopted, but the following procedure, with minor variations, is in vogue in many pharmacies. In the larger businesses, books with consecutive numbers, in triplicate, are used, one slip being given to the customer, one attached to the spool, and one retained in the book. On the two last-named slips particulars of the work required and the date are inscribed. The customer's name is also entered in the book. When the amount of business does not warrant the expense of printed slips, a suitably ruled note-book is substituted. When the work is returned from the D. and P. house it is checked off, enclosed in a wallet, and the number in the book crossed through with a coloured pencil.

PRACTICAL HANDBOOKS

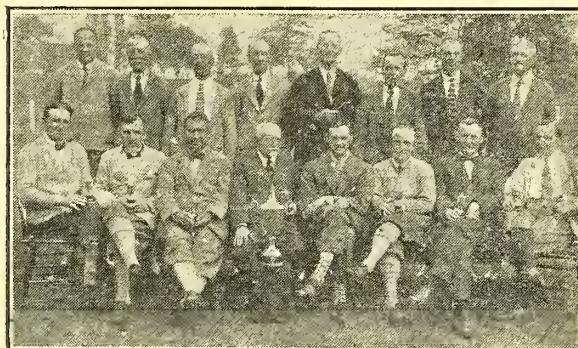
Two recent additions to the Photo Miniature series of practical handbooks, published in New York by Tennant & Ward, and for which the agents in this country are Houghtons, Ltd., 88-9 High Holborn, London, W.C., are "The Exhibition Print" (No. 188) and "Making an Enlarger" (No. 189). The price of each volume in Great Britain is 1s. 8d. In the former an explanation is given of the procedure to be adopted to obtain pictures suitable for exhibitions of photography. The technicalities of the various processes are not entered into, but the enthusiast is shown how to present his subjects so that they may arouse emotion in others. The article is illustrated with a few examples of the work of Ben. J. Lubschez. The latter handbook gives complete instructions, with working drawings, for the construction of an automatic focusing enlarger, in which the camera and lens used in making the negative are employed in making the enlargement. I should not, however, advise the amateur to attempt the construction of the enlarger, unless he has some skill as a carpenter and mechanic; even then, in most cases, it would be preferable to purchase one of the excellent models which are now on the market at a reasonable price.

A Keen Struggle

THE members of the Manchester Pharmacists' Golfing Society entertained the members of the Liverpool Pharmacists' Golfing Society at Northenden on July 11. The meeting was the fourth match played between the two city teams. Glorious weather prevailed, and everyone was delighted with the perfect condition of the course. After a keen struggle, Manchester won by six games to four. The results were as follows :—

	Manchester	Liverpool	
J. A. Collins, 4 and 3	1	A. F. Jewell	0
T. O. Owens	0	S. S. Halford, 1 up	1
J. Aves, 5 and 4	1	T. M. Tallantyre	0
J. H. Blyton	0	S. F. Alder, 5 and 3	1
T. Miller, 1 up	1	J. G. Duncan	0
J. D. Guest	0	W. A. Wynne, 4 and 3	1
R. G. Edwards, 5 and 3	1	F. B. Derrick	0
A. H. Turner, 8 and 6	1	F. C. Cooling	0
E. N. Fox	0	T. M. Lloyd, 5 and 4	1
J. H. Franklin, 9 and 8	1	C. Cooke	0
		6	4

After an excellent tea, Mr. A. J. Pidd (President, Manchester) expressed his pleasure at having the company of Mr. Gerald Gibbs (D. & W. Gibbs, Ltd., London). He assured Mr. Gibbs that they appreciated very highly the fact that he had come from London expressly to hand over in person the handsome trophy and replicas to the Manchester team who had the privilege and honour of winning them on May 30, when the match was played between Manchester and Liverpool at Southport and Ainsdale Golf Club. Mr. Gibbs thanked the President for the kind reception given him, and assured the members of both teams that he would look back for many



Photo]

Cleworth.

Liverpool Team standing : Manchester Team seated. Mr. Gerald Gibbs is on left of President (centre).

years with pleasure to the visit that day. He then presented the Gibbs challenge cup to the President; and after the President had thanked the donor, the beautiful miniature cups (exact replicas of the large trophy) were handed to the winners present—Messrs. Collins, Owens, Turner, Miller, Blyton, and Guest (Mr. Harrison and Mr. Whittaker, the other two in the winning eight, were unable to be present). Mr. Collins (captain) received these two prizes on behalf of the absentees, and said he was very proud of his team. He was quite sure that it was not the desire of the Manchester boys to win it every year—besides, it would become rather embarrassing if, after filling their sideboards with Gibbs miniature cups, they had to ask for some other prize. He sincerely hoped Liverpool would win it occasionally. (Loud laughter.) Mr. Pidd added that he was very pleased to extend a hearty welcome to Liverpool pharmacists; another win would have made them all square. At the conclusion of the proceedings Mr. John Cleworth presented to the Liverpool visitors a large mounted photograph of the Manchester and Liverpool Golfing Societies. This photograph was taken at Chorlton, to commemorate the first meeting of the two rival teams, at which Liverpool won.

Conference Notes

THE WELSH CONCERT.

H.R.H. The Prince of Wales has been pleased to extend his patronage to the Welsh concert which is to be held at the Queen's Hall on July 25.

SECOND LIST OF PAPERS

THE following papers, in addition to those mentioned in our issue of July 14 (p. 46), have been promised for communication to the Conference :—

"Manchurian Liquorice Root," by Ibrahim Ragab Fahmy.

"Agri-horticultural Poisons," by E. T. Neathercoat, C.B.E., Ph.C.

"An Investigation of Colchicum and its Galenicals," by J. Grier, M.Sc., Ph.C.

"Note on East African Cinchona Barks," by H. G. Greenish, D. és Sc., F.L.S.

"Colchicum: Historical Note," by Miss E. S. Hooper, B.Sc., F.I.C., Ph.C., and Miss K. M. King.

"Pharmaceutical Preparations: A Plea for International Uniformity," by Victor Cofman, B.Sc.

"Bismuth and Sodium Bismuth Tartrates," by C. E. Corfield, B.Sc., F.I.C., Ph.C., and F. W. Adams, Ph.C.

"Examination of the Bark of *Erythrophlaeum guineense*," by Cyril W. Maplethorpe (Ransome Research Fellow).

"Lithium, Sodium, Potassium and Ammonium Hippurates," by C. E. Corfield, B.Sc., F.I.C., Ph.C., and B. W. Melhuish, A.I.C., Ph.C.

"Bismuth Tetroxide Prepared from Sodium Bismuthate," by C. E. Corfield, B.Sc., F.I.C., Ph.C., and Elsie Woodward, A.I.C., Ph.C.

"A Further Examination of *Artemisia brevifolia*," by Henry G. Greenish, D. és Sc., F.L.S., and Cyril W. Maplethorpe, Ph.C., Ransome Research Fellow.

The subjects fixed for discussion at the Conference of Delegates are :—"A Training for Apprenticeship," opened by E. Saville Peck, M.A., Ph.C., and "The Branches of the Society: Their Functions and Possibilities," opened by E. T. Neathercoat, C.B.E., Ph.C.

SPORTS DAY

The arrangements for the sports day on Friday are now completed, and all that is asked for is fine weather to make it a big success. Conference ticket-holders are asked to exchange their vouchers at the bureau in the Hotel Great Central on or before Tuesday, July 24, for a railway ticket from King's Cross to New Barnet, a programme of the day's proceedings, and day ticket, including admission, lunch, and tea. Day visitors will have their tickets sent direct.

Putting.—It is hoped that every lady will join in this competition, as it will add to the gaiety.

Golf.—The steward in charge is Mr. G. F. Deeth; playing members will be on the stewards' list.

Bowls.—It is hoped to complete the arrangements for the international; but, in any case, there are numerous

entries, which will prove extremely interesting. The steward in charge is Mr. T. Marns.

Cricket.—The Southern team is now completed, but there are a few vacancies in the Northern team. Wickets will be pitched at 11.15 a.m. The steward in charge is Mr. A. R. Keith, and he is expecting many more entries from cricketing centres like Manchester, Sheffield and Nottingham.

Tennis.—The tournament has been extended so as to include ladies' singles, gentlemen's singles, and mixed doubles. Although there has been the biggest entry into this section, another twenty courts are available, so that whether it is tournament or otherwise, there is plenty of space for an enjoyable day. Steward in charge is Mr. H. Skinner.

Prizes are being offered in each competition, and the distribution will be made about 6 p.m. The Barnet military band will perform at intervals during the day.

THE ITALIAN DELEGATES

CAVALIERE GIUSEPPE ASSAUTO, President of the Italian Pharmaceutical Federation since 1914, and editor of "Il Farmacista," has behind him a long career of useful activity in the service of his profession. While conducting his own pharmacy at Biella since 1894, he has found time to take a leading part in all questions affecting pharmacy during the last three eventful decades. As delegate to the Superior Sanitary Council, secretary to the Congress of Trieste, member of the Tariff Committee, and in many other capacities, he has fought untiringly the battles of his profession and has fully justified the faith which Italian pharmacists have placed in his ability and disinterestedness.

COMMENDATORE TULLIO BOSIO, President of the "Ordine dei Farmacisti" of Turin, has occupied that position since 1912. He is well known among Italian pharmacists, and is esteemed for his untiring energy and the strong opposition he has shown to the Italian Government in connection with the pharmaceutical laws of 1908 and 1913, when, in collaboration with his colleague, Luigi Boniscontro, he put up a strong fight defending the interests and status of the pharmaceutical profession in Italy. Comm. Bosio is a well-known personality in Piemont, where he has done considerable work in connection with public health and many benevolent organisations.

DR. CESARE CHIAPPA, President of the Pharmaceutical Association of Rome, was born in Naples in 1876. He obtained the diploma of doctor in science (chemistry) at the University of Rome, as a pupil of Stanislao Cannizzaro. He qualified as a pharmacist at the same University, where he afterwards acted as lecturer on industrial and applied chemistry. Among the offices he has held are those of Vice-President of the Italian Pharmaceutical Society, President of the Pharmaceutical Association of Rome, and member on the executive of the Pharmacists' Fascist organisation. Dr. Chiappa is on the commission for the reform of the 1906 law relating to patent medicines and pharmaceutical specialities, and a very active member on the Sanitary Council of Rome.



CAV. G. ASSAUTO.



COMM. T. BOSIO.



DR. C. CHIAPPA.



COMM. C. GIONGO.



CAV. F. PRATTA.

CAVALIERE DR. DOMENICO COPPOLA, President of the Pharmaceutical Association of the province of Foggia, was a delegate to the International Federation in 1913. Born in 1869 at Naples, he entered the academic ranks as lecturer at the Technical Institute of Naples, to which he has devoted his life's work, and where he has trained many eminent scientists. Professor Giovanni Alfani, the well-known Italian vulcanologist and Director of the Meteorological Observatory at Pompeii, is one of his pupils. Dr. Coppola has taken an active part in all matters connected with pharmacy in Italy, and has acted as member on many public health and governmental commissions.

COMMENDATORE CARLO GIONGO, editor and proprietor of the "Bollettino Chimico-Farmaceutico," Milan, and director of the "Mutua Farmaceutica Italiana," a powerful pharmaceutical commercial organisation with a capital of 10,000,000 lire, and a membership of over 1,000 pharmacists, was born in 1872 at Bergamo, and qualified in 1872 at the University of Pavia. He is the author of various important publications on qualitative mineral analysis, railway hygiene, etc. A hard worker and convincing speaker, he has taken a successful part in the struggles of his profession. He was one of the originators of the Pharmaceutical Association of Lombardy, which afterwards fused with that of Milan, and eventually, in 1912, with seventy other national associations, to form the "Federazione degli Ordini dei Far-

As secretary to the sixth National Congress of Chemistry and Pharmacy, held at Trieste in 1921, and throughout his pharmaceutical career, he has been an audacious fighter and a staunch defender of the pharmaceutical profession. He is a well-known figure in the political life of Italy. During the Communist occupation he was the President of the Committee of Public Assistance, and now he is Mayor of Biella. Cav. Pratta has inherited from his father, a distinguished composer, an artistic temperament, and is an accomplished pianist.

Fairchild Scholarship and Prizes

THE examination of the Fairchild scholarship and prizes was held on June 20 at the following five centres:— Belfast (Mr. James Guiler, Supervisor); Cardiff (Mr. Albert Hagon, Supervisor); Edinburgh (Mr. Peter Boa, Supervisor); London (Mr. Harry Moon, Supervisor); Manchester (Mr. A. L. Blain, Supervisor).

The candidates who complied with all the conditions of entry this year number twenty-four. Of the twenty-four candidates, eighteen represented England, one Scotland, three Wales, two Ireland.

The papers written by the candidates were assessed by:—Mr. Peter Boa, Ph.C. (practical pharmacy and prescription reading); Mr. James Grier, M.Sc. (chemistry); Mr. Wm. Kirkby, M.Sc. (business knowledge and materia medica). The questions were set by:—Mr. James Grier, M.Sc. (chemistry, and practical pharmacy and prescription reading); Mr. Wm. Kirkby, M.Sc. (business knowledge and materia medica).

The following are the results:—

Mr. Arthur Maurice Crowe, Bolton, Lancs, wins the scholarship with 388 marks out of a possible 500.

Mr. Emeric A. Eccles, Oswaldtwistle, Lancs, wins the England prize, £5.

Mr. Robert J. Martin, Belfast, wins the Ireland prize, £5.

Miss Annie Forsyth McTavish, Edinburgh, wins the Scotland prize, £5.

Mr. Rees Vernon Lloyd, Holloway, London, wins the Wales prize, £5.

The candidates who came out at the top of the list did very well; their average was high, as far as the other candidates were concerned, the figures were somewhat below the 50 per cent. mark.

PARTICULARS OF SCHOLARSHIP AND PRIZE WINNERS

Mr. Arthur Maurice Crowe, Bolton, Lancs, was registered at Bolton and apprenticed to Boots Pure Drug Co., Ltd., at their 29-31 Knowsley Street, Bolton, branch; he is now at their 3 Blackburn Street, Radcliffe, branch.

Mr. Emeric A. Eccles, Oswaldtwistle, Lancs, was registered at Oswaldtwistle, and apprenticed to C. A. Critchley & Co., Blackburn; he then entered the employ of Mr. F. C. Burton, St. Ives, Hunts, and is now with Mr. W. R. Cameron, Union Road, Oswaldtwistle.

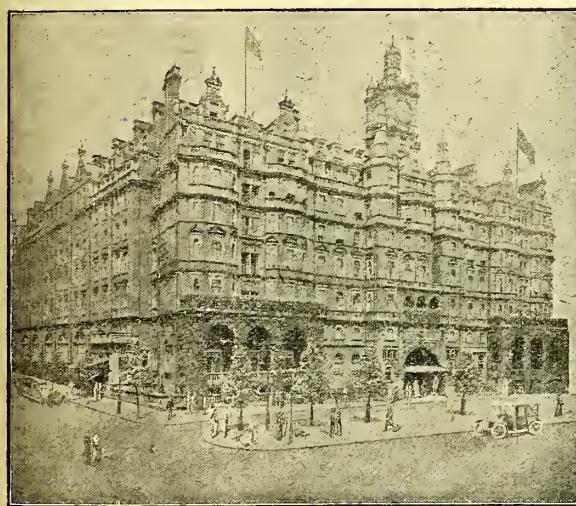
Mr. Robert J. Martin, Belfast, was registered at Magherafelt, Ireland, and apprenticed to Mr. S. S. Badger, Magherafelt, and is now with J. B. Hay, Lisburn Road, Belfast.

Miss Annie Forsyth McTavish, Edinburgh, was registered at Edinburgh, and apprenticed to Mr. R. D. Douglas, Brandon Terrace, Edinburgh, where she is now employed as assistant.

Mr. Rees Vernon Lloyd, London, was registered at Pontypridd, Wales, and apprenticed to Mr. T. L. Williams, Cilfynydd, S. Wales; he then entered the employ of Mr. G. Parsons, Hove, and is now with Mr. J. J. Morris, St. James' Parade, Muswell Hill, N.10.

As stated in the syllabus, "the nationality of a candidate is determined by reference to the place at which he was living when registered as a student of pharmacy by the Registrar of the Pharmaceutical Society of Great Britain or of Ireland, as shown by the Registrar's certificate, and irrespective of the centre at which he presents himself for examination."

AT Petersfield, a correspondent (18/7) informs us, a swarm of bees was recently hived in the doorway of Mr. Nichol's pharmacy in High Street.



HOTEL GREAT CENTRAL, Marylebone Road, N.W.1; the headquarters of the Conference and International Federation.

cisti d'Italia," the official Italian pharmaceutical body. Comm. Giongo has been secretary and President of several National Congresses of Pharmacy and Chemistry, and is now a representative on the Superior Council of Public Health.

PROFESSOR FRANCESCO NICOLA, of the University of Turin, qualified as a pharmacist in 1869, obtained a medical degree in 1892, and was later called to the chair of pharmaceutics. Until quite recently Professor Nicola has conducted his own pharmacy in the city of Turin. He is an eminent analyst, and has contributed to science a number of papers dealing with original research. The pharmaceutical laboratory of the University of Turin is a monument to his untiring energy, and it was through his initiative and persistent work that the sum of 25,000 lire has been collected among the pharmacists of the province of Turin towards the installation of the pharmaceutical laboratory of the University. Professor Nicola is a director of the well-known "Società Anonima Schiapparelli" of Turin.

CAVALIERE FRANCESCO PRATTA is the President of the Pharmaceutical Association of Biella, and a delegate on the Educational Committee of the province of Novara.

Sale of Pharmacy Vases

AN important sale of Hispano-Moresque pottery was held at the famous rooms of Messrs. Christie, in London, on July 10. The seventy interested persons present enjoyed the maximum of comfort, as the sweltering heat was modified by shaded roof windows and silent electric fans. Some 400 rare specimens of this early pottery were catalogued in 142 lots. The greater part of the items were deep circular dishes, but we are concerned with the thirty lots which comprised forty-two cylindrical pharmacy pots. These varied but little in size and shape. The collection had been formed by Mr. Francis Mark, F.R.G.S., during his many years' residence at Palma, in the Balearic Isles, where he had acted as consul. Hispano-Moresque pottery—pre-Sixteenth Century—is greatly coveted by the principal museums and wealthy international collectors. A sum of upwards of £4,000 was realised, and of this amount £1,260 was obtained for the forty-two drug jars. Three important items which we illustrate were described as follows:—

41. A PHARMACY-JAR, with cylindrical centre, the lower part decorated with chequer pattern in copper lustre divided into square panels by blue trelliswork, a band of copper lustre round the centre with scrolls reserved in white, and a broader band above enclosing fleur-de-lys ornaments in white on copper lustre panels outlined with blue, the groundwork pincilled with scrolls in copper lustre, and the lip decorated with a similar band of chequer pattern to the base—9½ in. high—early 15th Century. [120 guineas.]

42. ANOTHER, decorated with a band of trelliswork in copper lustre, round the centre, and panels of "Allahfia" ornament in blue round the neck and base on a groundwork of copper lustre scrolls—11½ in. high—14th Century. [150 guineas.]

121. A PHARMACY-JAR, with nearly cylindrical sides, painted with horizontal bands of scrollwork in pale copper lustre divided by bands of fluting and "Allahfia" ornament in copper lustre and blue—12½ in. high—15th Century. [170 guineas.]

The word "Allahfia" alludes to a design evolved from Kufic script and signifies "God's blessing." Three other lots with bryony and vine decoration are also worth notice:—

109. A PHARMACY-JAR, with slightly concave sides, painted with horizontal bands of vine leaves and tendrils in blue and pale copper lustre—11¾ in. high—15th Century. [60 guineas.]

111. A PAIR OF DITTO, of similar form, painted with the bryony pattern in blue and pale copper lustre—11½ in. high—15th Century. [75 guineas.]

122. ANOTHER, with slightly concave sides, entirely decorated with the bryony pattern in blue and copper lustre—11 in. high—15th Century. [50 guineas.]

Two others of the non-lustre type were sold together for 50 guineas; their description was:—

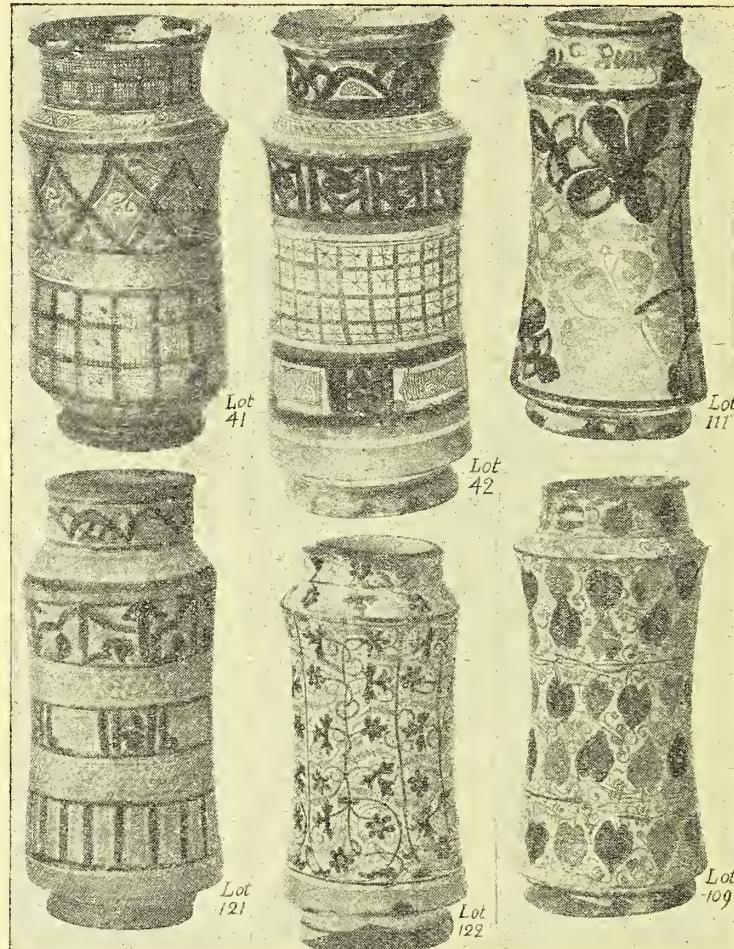
69. TWO PHARMACY-JARS, painted with a Gothic letter P, and a stag in blue on a groundwork of arabesque foliage—10½ in. and 10 in. high—15th Century.

On the other hand, a dozen specimens, painted with flowers and cones in blue and no lustre, averaged from four to five guineas each. Some of these were more or less damaged and repaired. In all cases there was an absence of inscriptions relative to the substances the jars had contained; some showed a tendency to introduce Christian emblems and primitive heraldic designs. The black bryony and its tendrils conventionally treated seemed quite a favourite decoration with these old artists. Much could be written concerning the history of these shimmering-gilded treasures, for Hispano-Moresque pottery stands alone in the world of ceramics. So far back as the Twelfth Century the Moors were suzerains over a large portion of Southern Spain, and were already famous as potters on account of their lustre ware. Fanatical Arabs and hosts of vandals have swept the land during the intervening centuries, and the average collector must be content with similar objects of a much later period. We have reviewed from time to time various famous collections of pharmacy pots, and interested readers are familiar with the types usually collected. Though Hispano-Moresque pottery can claim a greater antiquity, there is a fascinating field for study and acquisition in old drug jars of English origin by virtue of their inscriptions, designs and dates. In the realm of polychrome faience, however, Italy and France are supreme.

MR. L. ARDEN, Ph.C., is removing from 110 High Street to 15 Southgate Street, Winchester, and will open temporarily to 5 Southgate Street.

THE businesses of Mr. W. Mantz and Mr. James H. Reid have been combined, and will be carried on under the style of Mantz & Reid, Ltd., 1 Leadenhall Street, London, E.C.3.

MILLIDGE & SON, chemists, 47 High Street, Newport, Isle of Wight, inform us that the report in our last week's issue of their being about to open another business is inaccurate, and that they have no intention of opening in the locality indicated or elsewhere.



Pharmaceutical Society of Ireland

Council-meeting

THE monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on July 10, Dr. A. J. Barnes, President, in the chair. The following members of the Council were also present:—Mr. D. M. Watson (Treasurer), Dr. J. A. Walsh, Messrs. J. E. Connor, J.P., G. A. McLean Lee, Michael Ryan, John Smith, F. J. Fitzpatrick, Denis J. Nugent, and Victor E. Hanna.

Apologies for non-attendance were received from Mr. R. Blair, Mr. J. C. Culbert, Mr. R. F. McCartney, and Mr. Fred Storey.

The Lloyd Library, Cincinnati, Ohio, which sent a set of "Bulletin of the Lloyd Library," were thanked for the donation.

PRELIMINARY REGISTRATION

The following submitted certificates of other bodies and were admitted to preliminary registration:—

Mr. John Cain, Dowling's Medical Hall, Castle Street, Tralee; Mr. John Kerr Carvill, Loreto, Ballyhaffrey, Castlewellan, Co. Down; Mr. Patrick G. Dowling, 3 Lower Castle Street, Tralee; Mr. David Fitzpatrick, Fenmor Lower, Oldcastle, Co. Meath; Mr. T. Mulvihill, 3 Lower Castle Street, Tralee; Mr. Philip Andrew Bernard O'Sullivan, 4 Farleigh Place, Montenotte, Cork; and Mr. Gardner Weir, Castle Street, Ballymena.

Reports from the following committees were received and adopted:—The Law Committee, the Certificates Committee, the Declarations Committee, the School Committee, and the House Committee.

SESSIONAL SCHOOL EXAMINATIONS

It was stated in the Report of the School Committee that the following were the successful prize winners at the Society's Sessional School Examinations:—

Botany.—First prize, Mr. J. R. Sheehy, 89 per cent.; second prize, Miss M. J. Wall, 85 per cent.

Materia Medica.—First prize, Mr. J. R. Sheehy, 96 per cent.; second prize, Mr. J. McCarthy, 84 per cent.

Chemistry, Practical (Day Class).—First prize, Mr. M. C. Leary, 80 per cent.; second prize, Miss M. J. Wall, 75 per cent. (Night Class).—First prize, Mr. F. S. Westbury, 90 per cent.; second prize, Mr. Henry M. Murphy, 80 per cent.

Theoretical Chemistry.—First prize, Mr. Walter J. Webb, 80 per cent. No other candidate gained the qualifying marks, viz., 70 per cent.

ELECTIONS

The following were elected as members:—

Dr. Isaac Jacob Eppel, Ph.C., 27 Grosvenor Square, Rathmines, Co. Dublin; Miss Kathleen Ryan, Ph.C., 17 Berkeley Street, Dublin; and Mr. Thomas Joseph Smith, Ph.C., 1 Old Cabra Road, North Circular Road, Dublin.

Mr. Joseph McMullan, R.D., 8 Church Street, Coleraine, was elected as an Associate Druggist.

Examination Results

The following are the results of the recent examinations:—

PRELIMINARY EXAMINATION.—Patrick Daly, Ferbane, passed with honours. The following also passed: Cyril Cooke Connolly, Cavan; Kathleen Fogarty, Dublin; Charles MacLaughlin, Cloghan, Co. Donegal; (David Baird, Belfast—Eileen M. Young, Dublin); James Dunn Fleming Beattie, Inch Island, Co. Donegal; John Denis Tooher, Tralee; Ernest Dawson Attwooll, Dublin; (John Andrew Fyffe, Belfast = Patrick Austin Moriarty, Listowel); Norah Eileen Lambe, Belfast; Ellen Clifford, Killorglin; (Rhoda Dawson, Clones = Patrick Ambrose Gerard Byrne, Dundalk); Ena May Donald, Youghal; Francis Blowick, Castlebar; Evelyn Hanoria Jennings, Craughwell; Gertrude Mary McCaul, Dundalk; (Patrick Joseph Mallon, Lurgan = William Morrow, Belfast); William Glavin, Youghal; Mildred Alice Mary Johnston, Fintona; Gerard Patrick Thomas Cooney, Rostrevor; Elizabeth Galvin, Youghal; Martin Francis Glynn, Tuam; Michael Moynihan, Tralee.

Thirty candidates were rejected.

PHARMACEUTICAL LICENCE EXAMINATION.—The following passed: Mavis Crawford Maxwell, Belfast; (Edward

Alleyn Evanson Ashe, Cork = John R. Sheehy, Listowel); Murtagh Christopher Leary, Wexford; Harry Charles Dillon, Enniskillen; Frederick Seymour Westbury, Upton-on-Severn; Catherine Cecilia Cregan, Dublin; Lawrence Mongey, Athlone; John McCarthy, Doneraile; Gertrude Donnelly, Dundalk; Brigid Corrigan, Enniskillen; William George Cunningham, Dublin; Robert John Martin, Belfast. Nineteen candidates were rejected.

PHARMACEUTICAL ASSISTANT EXAMINATION.—The following passed: Robert Armour Dudgeon, Abbeyleix; Henry Albert Naylor, Listowel.

The above lists are in order of merit.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Organic Arsenoxides.—The hydrazone of aromatic aldehydes, or mixed aliphatic-aromatic keto-arsinic acids are found to yield on reduction organic arsenoxides and arsenobenzols. (O. Margulies. 199,093.)

Feeding Bottles.—A nipple for infants' feeding bottles provided with a device to regulate the amount of feed to the child's requirements, the aperture being capable of enlargement. (J. T. Cowie. 199,285.)

Fish Oils.—A process of extracting oils free from offensive odour from fresh fish, consisting in boiling the raw fresh fish in an antiseptic prior to extraction of the oil by pressure. (Kintaro Mitsui. 199,054.)

Feeding Bottle Holder.—An adjustable holder for an infant's feeding bottle, which can be attached to its chair, cradle, etc., avoiding the necessity of holding the bottle by hand. (E. J. W. Parker. 199,288.)

Shaving Soap Container.—A cylindrical container provided with internal longitudinal corrugations and a moveable bottom plate, which can be engaged and retained in position by lateral corrugations. (L. J. Mayreis. 199,266.)

Methane.—A process for manufacturing methane by passing a mixture of carbon monoxide and water vapour over two nickel contacts, at a temperature of 300° C. (Farbwerke, formerly Meister Lucius & Brüning. 186,899.)

Manufacture of Acetone.—A process for manufacturing acetone from acetylene and steam at a temperature of 350° to 450° C., in the presence of thorium-potassium carbonate as catalyst. (Elektrizitätswerk Lonza. 192,392.)

Skin Emollient.—A skin lotion of the following formula:—

Distilled water	...	...	...	6 parts.
Glycerin	...	...	...	3 "
Lemon juice	...	...	...	2 "

(F. Gunn. 199,209.)

Arsenical Compounds.—Compounds possessing a powerful trypanocidal and spirilloidal action can be obtained by the action of hydrazine compounds or aromatic aldehydo- or keto-arsinic acids, or aromatic aldehydo- or keto-compounds containing trivalent arsenic. (O. Margulies. 199,092.)

Inhaler.—A tube provided at one end with a nozzle for insertion into the nostril, containing within its body a second tube provided throughout its length with perforations to permit the passage of vapours of menthol or other medicament packed within the space between the outer and inner tube. (C. C. Fecher. 199,286.)

Pancreatic Enzyme.—15 to 12 parts of fresh, or salt-pickled, pancreas gland, 6 parts of calcium sulphate, 16 parts of dried sodium chloride, 50 parts of anhydrous sodium sulphate, and about 15 parts of ammonium chloride are well mixed, and the mass allowed to dry at low temperature, when it is powdered. (Ledoga, S.A. 188,660.)

Pharmaceutical Botany

XVI. Flowering Plants—Gymnosperms—Cycads and Conifers

IN our previous studies we have traced the elaboration of the spore-bearing plant, which, however, in these Cryptogams, is always hampered by need of casual water outside the plant for the sexual process. The adoption of heterospory in some of the great fern alliance paved the way to the adoption of a seed-bearing habit; indeed, some extinct ferns bore true seeds, owing to retention of (mega) spores and fertilisation *in situ*. These fossil seed-bearing plants (Pteridosperms) thus solved the problem of controlling water conditions for fertilisation by retaining the female gametophyte under control of the sporophyte itself. However, the seeds were scattered singly on the sporophyll and were shed soon after fertilisation, before the new plant (or embryo) developed. In these seed plants of early ages a (water) cavity was formed above the big megasporangium to receive pollen (or microspores). The latter germinated therein and discharged their sperms into the internal water, so that they could swim to the necks of archegonia debouching thereon. The Cycadales, another fossil family (with living representatives), aggregated sporophylls to form a cone or inflorescence—the progenitor of a flower and of

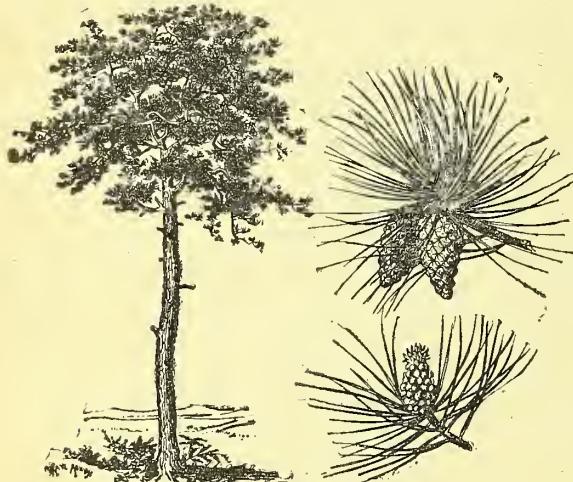


FIG. 43.—*Pinus sylvestris*.

flowering plants. In these Gymnosperms (*gymnos*=naked, and *sperma*=seed) the cavity is still formed, but there is no water therein. Moreover, the archegonia are covered by overlying tissues. The pollen grains develop a tube which grows towards the archegonia and down which the fertilising nuclei pass. Living Cycads show the inertia of evolutionary development in that these nuclei change into spermatozoids and complete the journey by their own volition. In the allied Coniferales (pine family) all traces of self-motile sperms have been lost, and the male nuclei enter the archegonia from the (perforated) tip of the pollen tube. The adoption of heterospory originated the seed habit, which freed plants from the last tie to their aquatic ancestry. The collection of sporophylls into cones initiated flowering plants, and the combination proved so successful that it quickly became predominant in land flora. The student should observe that the gametophyte generation in Gymnosperms persists, and that true archegonia are formed (Fig. 44). The homologies of the gametophyte generation of flowering plants can readily be seen in comparison with *Selaginella*, otherwise they would be obscure. The natural order of circumstances in the Cryptogams is reversed so that gametophyte generation in flowering plants is no longer free, but dependent upon (and enclosed by) sporophyte.

The Coniferae, so termed from their characteristic inflorescences and fructification, of which the pine cone is the type, are represented in Great Britain by three

genera, *Pinus*, *Juniperus*, and *Taxus*, all three being evergreen trees found in woods and shrubberies.

The Scots pine, *Pinus sylvestris* (L.), is, when fully grown, a large tree, with, however, less of the conical appearance usually associated with this genus and so familiar owing to "Christmas trees." It has two kinds of branches—long shoots bearing scale leaves, and dwarf shoots (or spurs) bearing a pair of acicular (needle-shaped) foliage leaves. This twin arrangement of pine needles on short spur shoots suffices to characterise the plant for pharmaceutical students. The plant is full of interest. The wood contains no tubular elements (vessels), being made up mainly of closed cells (tracheids) with curiously thickened walls (bordered pits). The main root is directly continuous with the stem (tap root), but the root system is not extensively developed. As the plant grows in the comparatively arid soil on mountainous slopes, its leaf exhibits various devices for checking undue loss of moisture (xerophytic characters), the most important of these being the sunken stomata (apertures) in the thickened epidermis or skin. Curious peg-like projections of the cell wall are found in the cells on the interior of the leaf, apparently in order to increase the area for assimilation and absorption purposes. The "male" flowers (Figs. 43 and 45) appear early in May at the base of the new shoots which are developing, and each flower, consisting of a spiral of stamens, corresponds in position to a dwarf shoot. Each stamen bears two pollen sacs on its under-surface, and the pollen grains are winged. Showers of sulphur which have been reported from time to time were due to pine pollen. This can be imitated on a small scale by shaking a branch of a pine tree about the middle of May. The wasteful method of wind pollination (anemophily) accounts for this profuse production of pollen and for the winged pollen grains. The female flowers, which develop laterally at the apices of young elongated shoots, are inconspicuous during the first year, being imperfectly developed at the time of pollination. A year elapses between pollination and fertilisation, and the fructification (Fig. 43, at top on right-hand side) is three years old when fully ripe. The open scales (Fig. 44, 1) composing the cones bear ovules which ripen into naked seeds, hence the group name (see above). The seeds have a wing enabling them to be carried further by breezes.

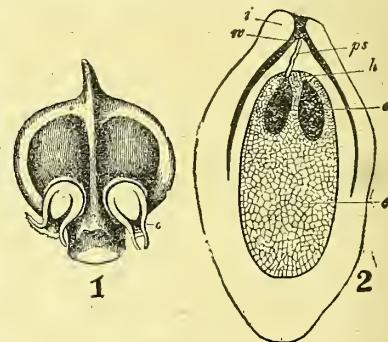


FIG. 44.—PINE.

1. Seed-scale of *Pinus sylvestris* with two megasporangia or ovules near base; o, ovule. 2. Diagrammatic longitudinal section (x about 12) of ovule; i, integument; ps, pollen-tube; e, germinated macrospore or embryo-sac; h, archegonium with neck, h.

various devices for checking undue loss of moisture (xerophytic characters), the most important of these being the sunken stomata (apertures) in the thickened epidermis or skin. Curious peg-like projections of the cell wall are found in the cells on the interior of the leaf, apparently in order to increase the area for assimilation and absorption purposes. The "male" flowers (Figs. 43 and 45) appear early in May at the base of the new shoots which are developing, and each flower, consisting of a spiral of stamens, corresponds in position to a dwarf shoot. Each stamen bears two pollen sacs on its under-surface, and the pollen grains are winged. Showers of sulphur which have been reported from time to time were due to pine pollen. This can be imitated on a small scale by shaking a branch of a pine tree about the middle of May. The wasteful method of wind pollination (anemophily) accounts for this profuse production of pollen and for the winged pollen grains. The female flowers, which develop laterally at the apices of young elongated shoots, are inconspicuous during the first year, being imperfectly developed at the time of pollination. A year elapses between pollination and fertilisation, and the fructification (Fig. 43, at top on right-hand side) is three years old when fully ripe. The open scales (Fig. 44, 1) composing the cones bear ovules which ripen into naked seeds, hence the group name (see above). The seeds have a wing enabling them to be carried further by breezes.

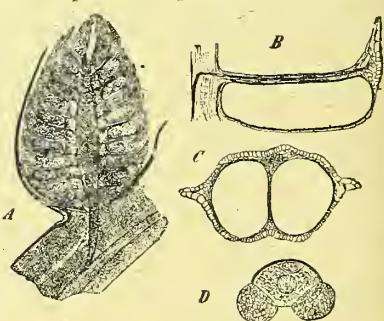


FIG. 45.—*Pinus Pumilio*.

A, longitudinal section of a microsporangiate flower (x about 6). B, longitudinal section of a microsporophyll, showing cavity of one pollen-sac (x about 12). C, transverse section of a microsporophyll, showing cavities of both pollen-sacs. D, germinating two-celled microspore of *Pinus sylvestris*, showing bladder-like expansions (x about 300). (After Strasburger.)

Personalities

MR. HORACE E. BOWLES, F.I.C., consulting chemist, Monument Chambers, London, E.C.4, has been elected a member of the City Corporation for Bridge ward.

MR. GEORGE E. GILLARD, A.C.I.S., who has been secretary of Evans Sons Lescher & Webb, Ltd., for the past five years, in succession to the late Mr. L. J. Prinney, has resigned his position.

In the reference to the "Reading Mercury" in this column of our last week's issue, it should have been made clear that it was the bicentenary that had just been celebrated, the actual date of the first number being July 8, 1723.

MR. WILLIAM FREDERICK MAIR, son of Mr. William Mair, F.C.S. (Fletcher, Fletcher & Co., Ltd., manufacturing chemists, London, N.7), has passed the Final examination for the degrees of M.B. and Ch.B. Edinburgh University.

MR. CHARLES BELL, managing director of Chas. Zimmermann & Co. (Chemicals), Ltd., London, E.C.3, was recently presented by the staffs of the company at St. Mary-at-Hill and Bartlett's Buildings, on the occasion of his silver wedding, with a silver cake dish suitably inscribed.

THE nomination of Mr. J. Cofman-Nicoresti, chemist and druggist, as Roumanian delegate to the forthcoming meeting of the International Pharmaceutical Federation reflects honour on the Pharmaceutical Society of Great Britain, of which he is a member.

Mr. Cofman is a regular contributor to THE CHEMIST AND DRUGGIST; and although, like many other able pharmacists, he has been drawn to the professional side and has a practice as consulting chemist in London, he still takes an active interest in all pharmaceutical matters.

MR. J. COFMAN-NICORESTI.

MR. K. S. DICKINSON, Ph.C., younger son of Mr. David Dickinson, chemist and druggist, Hoole, has passed the Final examinations of the Royal Colleges of Physicians and Surgeons in London. Dr. Dickinson passed the Major examination in 1914, and was for some time principal of the Chester and North Wales College of Pharmacy.

Births

Notices for insertion in this column must be properly authenticated.

WARNER.—At Wolverhampton, on July 12, the wife of H. L. Warner, chemist and druggist, of a son.

WOODS.—At "Solesmes," Formby, on July 15, the wife of J. F. Woods, chemist and druggist, of a son.

Marriages

FINLAYSON—SCAIFE.—At Brunswick Wesleyan Church, Stockton-on-Tees, on July 12, by the Rev. W. J. Tunbridge and the Rev. A. E. Guile, assisted by the Rev. A. W. Morrow, William Finlayson, chemist and druggist, only son of Mr. J. W. Finlayson, to Florence Benson, only daughter of Mr. W. J. Scaife. At Home: August 28, 29 and 30, at 6 Van Mildert Terrace.

GLOVER—WALLER.—At the Catholic Apostolic Church, Batley, on July 3, Edward D. Glover (W. H. Richardson & Co., Ltd., chemists, Horsforth, Leeds) to Heppy

Waller, Dewsbury. Present address: New Wortley Pharmacy, 40 Tong Road, Leeds.

NEILSON—DALGLEISH.—At West U.F. Church, Perth, on July 6, by the Rev. A. Ferguson, B.D., Thomas Neilson, chemist and druggist, eldest son of Mr. R. Neilson, chemist and druggist, Ayr, to Elizabeth Whittet Irvine, eldest daughter of Mr. G. Dalgleish, Perth.

PEDLEY—SNOW.—At Lydney Church, Gloucestershire, on July 7, Arthur J. Pedley, Western representative for Kolynos, Inc., to Violet May Snow, fourth daughter of Mr. Arthur Willoughby Snow, Lydney.

Silver Wedding

(From THE CHEMIST AND DRUGGIST, July 30, 1898.)

MASKEW—SMITH.—On July 19, at St. Mary's Parish Church, Scarborough, by the Lord Bishop of Hull, William Maskew, Ph.C., 285 Oxford Street, Manchester, to Agnes Annie, eldest daughter of Mr. Richard Smith, jeweller, Scarborough.

Deaths

BINGLEY.—At 18 Langham Place, Northampton, on July 12, suddenly, Mr. John Bingley, Ph.C., aged eighty-three. Mr. Bingley passed the Major examination in 1864. In the following year he took over the business of Greville & Taylor, Wood Hill, Northampton, and in 1874 he disposed of it and devoted his attention to the manufacture of aerated waters. At various times Mr. Bingley served on the Town Council, the Board of Guardians, the School Board, and as a municipal charity trustee. He was a Past Master of the Pomfret Lodge, and had held other offices in Freemasonry.

HURRAN.—At 5 Alleyn Road, London, S.E.21, on July 11, suddenly, Mr. Rowland Frederick Hurran, youngest son of the late Mr. William Hurran (Fullwood & Bland, annatto manufacturers, Bevenden Street, London, N.1).

WILLIAMS.—At Cemaes Bay, on July 13, Mr. Richard Henry Williams, chemist and druggist. Mr. Williams qualified in 1904.

Wills

MR. ALEXANDER EISLMAN, retired manufacturing chemist, 38 Norwood Avenue, Southport, who died on April 13, left estate of the gross value of £22,043 17s. 6d., of which £2,678 3s. is net personality.

MR. ALFRED HAYLES, 10 Houghton Place, Ampthill Square, London, N.W., retired chemist and druggist, who died on April 8, left estate of the gross value of £31,375 13s. 9d., with net personality £27,589 8s. 2d.

MR. EDWARD GRINDLE HOGG, Ph.C., 26 Florence Road, Ealing, London, W., of R. Hogg & Sons, 1 Southwick Street, Hyde Park, W., who died on May 7, left estate of the gross value of £8,342 4s. 4d., with net personality £7,068 10s. 9d.

MRS. CHARLOTTE LAYMAN, Thornton House, Bickley, who died on May 30, widow of Mr. Charles Noel Layman, of Wright, Layman & Umney, Ltd., London, S.E., left estate of the gross value of £6,164 13s. 9d., with net personality £5,244 4s. 5d.

MR. EDWARD TOZER, The Cottage, Betchworth, Surrey, and 84 Fenchurch Street, E.C., who died at Las Palmas on April 8, left estate of the gross value of £40,259 2s. 1d., with net personality £39,978 4s. 7d. Among the bequests is £600 to his trustees for distribution in their discretion between George Philip Peacock, Harry Tattersall Casterline, George Alexander Wilson, and A. C. Hills, or such other heads of departments at Tozer, Kemsley & Millbourn, Ltd. (not being directors), in the service of the company.

Trade Notes

CHECK-TILLS.—Dudley & Co., Holloway Road, London, N.7, advertise two kinds of check-tills, costing 39s. 6d. and 77s. 6d. respectively.

SINGLETON'S EYE OINTMENT.—The address of Stephen Green, Ltd., given in this column last week, should have been 210 Lambeth Road, London, S.E.1.

HERR D. LANDAUER, the founder of Landauer & Co., wholesale drug merchants, Grimmhof, Hamburg, is now the sole proprietor of the business, which will be carried on by him as heretofore.

LYSOFORM is again obtainable in this country. The agents, Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C.4, inform us that an extensive propaganda is being carried on with doctors, which should lead to an increased demand for this surgical disinfectant.

THE GREENWICH LEMONADE CO., 11 John Penn Street, London, S.E.13, in their advertisement call attention to the fact that a London chemist at one shop sold over £40 worth of their hot-weather specialities in one week. Many other chemists cleared a £6 parcel in two or three days.

BELGIAN FINE CHEMICALS.—Meurice, S.A., Brussels (agents for the United Kingdom : Mr. L. H. Goris, 49 Queen Victoria Street, London, E.C.4), specialise in various fine chemicals in wholesale quantities. Some of these are referred to in the company's advertisement in this issue.

THERMOS ICE-CREAM JARS.—This new variety of thermos flask is much in demand during the hot weather in London, where the catering trade is popularising the use of ice-cream for the home. Particulars of the flasks are given by Thermos, Ltd., 12-14 Denman Street, Piccadilly Circus, London, W.

AYRTON'S LEMONADE TABLETS.—With a view of enabling chemists to secure stocks promptly, Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool, offer to repay the cost of a 1s. telegram on orders for their lemonade tablets, particulars of which are given in an advertisement in this number.

CONTINENTAL CRUDE DRUGS AND HERBS.—Arthur Brannell & Co., Ltd., 43-45 Great Tower Street, London, E.C.3, have been appointed sole agents for Great Britain and Ireland for the Société Anonyme de Cultures Industrielles, 44 rue Richer, Paris, exporters of Continental crude drugs and culinary herbs, including centaury, gentian, madder root, red squill, stramonium, etc.

SWAN DOWN POWDER.—A very striking showcard in colours has been produced for Henry C. Quelch & Co.,



4 and 5 Ludgate Square, Ludgate Hill, London, E.C.4, in connection with Swan Down face powder. The sketch given here shows the design of the showcard.

A FINANCIAL METAPHOR.—"Mr. Douch, the Stock Exchange chemist, was having the time of his life, and liquitated 1,276 glasses of his refreshing lime-juice and saline into the thirsty clients who took stock from him from early morn to baking eve."—"Financial Times."

College Notes

"THE SQUARE CHRONICLE."

THE record of the School of Pharmacy Students' Association for the session, as reported in "The Square Chronicle," must be one of the most gratifying in the Association's history, particularly from the sport point of view. By winning the Inter-Pharmacy League Cup for the third season in succession, the club becomes the possessor of the trophy. The Hockey Club has won the first Inter-Pharmacy Hockey Cup, and holds an unbeaten record for the season. Among the contributions to the magazine are an article by Mrs. J. G. Everett and a cartoon by Mr. B. E. Kent.

BRADFORD

ON July 11, the pharmacy students of the Bradford Technical College paid a visit to the laboratories of Goodall, Backhouse & Co., Leeds, and spent an enjoyable and profitable afternoon inspecting the various departments, under the direction of Mr. Teale, Ph.C., and Mr. J. F. Simon, Ph.C. A large range of galenicals was seen in the process of manufacture, also tablet-making, ointment-milling and tin-box making. The party was afterwards entertained to an excellent tea. Mr. A. Malins Smith, M.A., proposed and Mr. J. W. Cooper, Ph.C., seconded a hearty vote of thanks to Mr. W. P. Bowman, the principal of Goodall, Backhouse & Co., and to Messrs. Teale and Simon for their hospitality and kindness.

LIVERPOOL

STUDENTS of the Liverpool School of Pharmacy (principal, H. Humphreys Jones, A.I.C.), accompanied by Messrs. J. Butler, B.Sc., and Philip H. Jones, F.I.C., visited the laboratories and drug mills of Evans Sons Lescher & Webb, Ltd., before the close of the session. The party was divided into four sections and taken round under the guidance of Messrs. Sendall (director), Turner, Cameron and Manson, and the members evinced great interest in the various manufacturing processes in progress, including the extraction of chlorophyll from grass. The party was then entertained to tea at Reece's Café, and expressions of thanks were tendered on behalf of the students by Mr. Butler, B.Sc., and Mr. Hodson, to which Mr. Nicholson replied on behalf of Messrs. Evans.

BATH

THE students of Bath Pharmacy College had a botany ramble recently, through South Stoke and Midford to Limley Stoke. At the close of the ramble, the principal, Mr. D. J. Williams, entertained the students to tea at the Viaduct Hotel. Mr. J. I. Hughes moved a vote of thanks to the principal for his kindness throughout, and this was carried unanimously. Mr. Parry-Jones also thanked the staff for their help. Various games were then entered into, and the return home was made via Claverton Downs. The end of the College session was marked by the presentation to Mr. D. J. Williams of an arm-chair. Mr. J. Edwards made the presentation on behalf of the students. He assured Mr. Williams that they, as students, would always cherish the memory of the time spent at the "Bath and West." Miss Pidgeon spoke in support of the sentiments expressed by Mr. Edwards, and Mr. Williams briefly and humorously replied.

Information Department

INFORMATION WANTED

B/147. Budge-chlorine preparation taken internally after food	L/177. Gazelle thermometers
H/266. Le Huby capsules	
A/167. Chiridin powder	L/76. Non-Boram milk and cream preservative
M/187. Fallon truss	

INFORMATION SUPPLIED

Alvesco. II/187 Cloth balls. G/167. Contessa Nettell cameras. P/196	Euresol. M/177. Felamine tablets. A/177 Goerz cameras. A/256 Hooker's malted milk. S/186
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Observations and Reflections

By Xrayser II.

The Remuneration

question is still the crucial point in the discussion of the new terms of apprenticeship, and it is likely to continue so. I have heard it put thus: My apprentice comes to me for education in pharmacy; how much am I to pay him for allowing me to educate him? That is manifestly a very extreme view, but there is so much ground for it as this—that the remuneration should be determined to some extent by the amount and quality of the education afforded. If Mr. Gillegan's proposal at Leeds is accepted, and every pharmacist taking an apprentice must be licensed, and (as I suppose is intended) be under the supervision of the Pharmaceutical Society in his discharge of the duty he owes to his apprentice, then, it seems to me, the remuneration is very largely given in service, and very little need be added in money. The principle holds good, too, if there is no such supervision. Under such varying conditions as must obtain in different shops and different places it is very difficult indeed to lay down a hard-and-fast rule. Something must be left to private arrangement between the parties, and any "scale" that may be adopted should be drawn up with this fact in mind.

"On the Knees of the Privy Council,"

the phrase used by Mr. Lupton at Leeds, exactly describes the position of chemists under the recent amendments of the Dangerous Drugs Acts. In other words, we are at the mercy of a non-representative, and in that sense irresponsible, body having no direct knowledge of our business and the difficulties under which it is carried on. The Privy Council has always had a certain hold upon us, but hitherto its power has been exercised at the instance of or in collaboration with the Pharmaceutical Society. This is no longer so. The Society is no longer, even in appearance, master in its own house, nay, it no longer has any say in one of the most important matters affecting us. Things have been tending in this direction for a long time, and there can be little doubt that they will be carried still further. It is useless to complain, but a protest ought to be made against the prolongation of the period of uncertainty as to what is really required of us with regard to mixtures containing poison. The requirements, whatever they are, go far beyond anything hitherto enjoined by the Dangerous Drugs Act, for (among other things) they respect other poisons besides "dangerous" drugs. In common justice this "amendment" ought not to have been passed until the Privy Council had made up its mind what it really requires of us. We are at present in the position of Nebuchadnezzar's soothsayers, who had to say what his dream was as well as how it was to be interpreted.

The Brass Band,

it seems, was not lacking at Port Sunlight, where the attractions of margarine manufacture vie with those of great works of art by such masters as Titian and Velasquez. On "the hottest day of the year," with the thermometer at, say, 90 degrees in the shade, the coolness necessary to the former would probably give it the greater "pull." It is marvellous to think what the enterprise and benevolent energy of one man has done for the workmen employed at Port Sunlight; and it must be with some revision of the dislike we naturally feel at the success of these enormous businesses, so serious a menace to the lesser men who must content themselves with such crumbs of business as fall from these great ones' tables, that one visits such a hive of industry. The figure employed without premeditation in the last sentence inevitably suggests the hackneyed quotation, *sic vos non vobis*. The head of such a business as that of Lever may seem to be enriching himself at the expense of others, but it is at least equally true that he enriches many beside himself and adds more to the world's wealth than he wins for himself.

The Oxford Botanic Garden

is frequently spoken of as the first of the kind in England; but this is strictly true only if public gardens intended for the use of students are meant, for in London alone there were several physic gardens in private hands long before. One of these belonged to Lord Zouche at Hackney, and was for some time under the care of Lobel, the joint author of the "Adversaria." Gerard's, in Holborn—referred to in the article on "London Botanic Gardens" in your recent Special Number—was another. Parkinson had one in Long Acre, Johnson (Gerard's editor) another on Snow Hill, Tradescant another at Lambeth. These were not, it is true, in every case merely physic gardens, but the cultivation of medicinal plants was a main feature in most of them. I venture to think that something more than justice is done to Gerard as a botanist in the article to which reference has just been made. Comparatively little of his "Herball" consists of original matter, and very few, if any, of the illustrations are of his own drawing.

July 26, 1923—

the date makes me recall, somewhat sadly, a triplet written—how many years ago!—after an evening in the Common Room of an Oxford College:—

Where Isis and the Cherwell meet
My lot had lain, had Fate been kind;
In learning's ancient English seat,
Where Isis and the Cherwell meet,
My days, like Burton's, had "run fleet";
To books, and talk, and port resigned,
Where Isis and the Cherwell meet
My lot bad lain, bad Fate been kind.

Well, here's to all those who go on the Oxford excursion.

The Excursion

of the Nottingham chemists to Belvoir is one I would fain have joined. Born within sight of Belvoir Castle, though at a considerable distance from it, our annual excursion thither was one of the great events of my boyhood. It was made by water. A coal barge, suitably cleaned, and decorated with flowers, was the vessel, the N. and G. Canal the element upon which we embarked to the enlivening strains of the village brass band, playing with all its lung-power, "A Life on the Ocean Wave." I am afraid, however, that even the pleasures of the Nottingham excursion would hardly equal ours. There was, apparently, no brass band; the fearful joy of daring the dangers of the deep was lacking; and I note that the party reached home tired, which I, for one, never did. The dangers attending a char-a-banc drive are indeed in all probability equal to any we dared, but they are hardly so alluring to the imagination—possibly because they are more real. It is good to hear that our Nottingham friends are young enough to enjoy such "violent delights."

Mr. Meyrick's Letter

on nomenclature is, in the main, good, but his list of errors might profitably be extended. Among the more vulgar errors with which we meet is the use of "salts" for "salt" in such phrases as "smelling salts," "Glauber's salts," and the like. "Sweet spirit of nitre" should be "spirit of sweet nitre"; it is much better to label impure sulphuric acid "oil of vitriol" rather than "vitriol," and strong solution of ammonia should never be labelled "ammonia" merely, as is sometimes done. I think Mr. Meyrick is needlessly critical in objecting to "liquor calcis," and to "cascara" without the addition of "sagrada." The shorter form is perfectly well understood: would he insist on the adjective in the names of all the preparations of cascara? I do not see any ambiguity in "liq. ammon. acet." If the stronger preparation is intended it should be so stated.

PHARMACIST MINISTER OF FRANCE.—A pharmacist, Apotheker Hennecke, owner of the "Lion Pharmacy" in the small town of Waren, has been appointed Minister of Finance by the Mecklenburg Parliament.

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AN announcement of particular interest to you appears in this issue on page 8

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Editorial Articles

The Finance Act

THOSE who, with some reason, look for the solution of the nation's financial troubles to an awakened interest on the part of members of Parliament in questions of taxation have reason to be pleased with the present state of the Finance Act, which has just received the Royal Assent. Since its introduction into the House of Commons the measure has practically doubled in size—the accretions representing, for the most part, concessions to various classes of taxpayers extorted from a hesitating and reluctant Chancellor. Of the changes made since we have last reviewed the Bill, that in Clause 8, which allows drawback of the duty paid on coffee made up in composite goods exported, seems to follow so naturally on the rule adopted in the case of duty-paid goods exported that we can only wonder it was not enacted before. Clause 9, by a piece of reference legislation, allows the importation of certain negative cinematograph films as blank films—that is, at 2*d.* per foot instead of 5*d.*—where a certain proportion of the artists required for their production are British. The next clause, 10, gives relief from motor duty on certain six-wheeled vehicles where some of the wheels are those of a trailer. Clause 11 represents an important concession of exemption from entertainments duty. The duty is not in future to be charged in any case in which the entertainment is provided by a society not conducted for profit and which has for its object the promotion of health or industry. The next clause extends an exemption from the duty which already exists in the case of school entertainments. Clause 13 is an echo of legisla-

tion recently passed in the Parliament of Northern Ireland : it amends, and makes enforceable by the Irish police, certain revenue statutes already in force in Ireland for the suppression of illicit distillation. Part II of the Bill, which deals with income-tax and inhabited house duty, contains some concessions which had to be stubbornly fought for in Parliament. Under Clause 15 the annual value of a house up to which exemption from inhabited house duty is allowed has been raised from £20 to £30. Clause 18 provides relief from double income-tax in the case of shipping businesses which, because of their connection with any foreign State, are liable to income-tax payable under the law of that State. Clause 24 contains a provision the converse of which has already applied in favour of the tax authorities. Under the clause, if the taxpayer is the victim of an excessive assessment because of some mistake made by himself in his income-tax return, he may apply for relief against the over-assessment at any time within three years after the end of the year of assessment. Clause 25 makes clear the right of a taxpayer appealing against an assessment to be represented at the appeal by a barrister, solicitor, or accountant, should he so desire. Clause 26 represents also a concession of obvious justice. The law heretofore has been that the Schedule A and the Schedule B assessments were fixed quinquennially, and the annual values thus fixed were automatically, by the operation of each Finance Act, made applicable to each of the four years next following, so that they could not be appealed against. Under the Bill an appeal will lie each year, just as in the case of a new assessment. Clause 27 contains the much-trumpeted sop to taxpayers, allowing them up to August 31 next, and in some cases September 30, to appeal against an assessment of property made this year under Schedule A. Clause 28 embodies an important concession as to the deductions which may be made for repairs to property. In the case of a house assessed at not more than £40, one-fourth of the assessment may be allowed; if the assessment is over £40 but not over £100, one-fifth is allowable; while in the case of an assessment over £100 the allowance is to be £20, together with a sum equal to one-sixth of the amount by which the assessment exceeds £100. The concessions are, on the whole, substantial, and the obvious lesson to be learned from the history of the Bill is that chemists will do well, when the occasion next presents itself, to have their special grievances in the matter of taxation pressed on the attention of the Chancellor.

Specialities in Czecho-Slovakia

SINCE the Armistice a number of countries have found it necessary either to revise the existing laws regulating the sale of pharmaceutical specialities or to introduce new legislation dealing with this subject. In most instances a system of registration, requiring the disclosure of the formula to a Government department for its approval, as well as on the label of the preparation itself, together with some form of permanent control designed to ensure that the composition corresponds with the registered formula, have been adopted. In some countries a distinction is even made between specialities manufactured on a commercial scale and those made by individual pharmacists, the sale of which is restricted to their own businesses. In Czecho-Slovakia, where the former Austrian regulations are still in force, the Government has elaborated a Bill dealing with the manufacture,

importation, and sale of pharmaceutical specialities, of which the tenor has been communicated to the semi-official daily Press. The Government motivates the introduction of new legislation by declaring that since the cessation of hostilities this question has become acute, as large numbers of problematic remedies and preparations of foreign origin are being imported, while in the republic "numerous new establishments have been created, which vie with one another in inventing new names for old, scarcely modified formulas, to the detriment of the health and pocket of a credulous public, at the same time discrediting the medical and veterinary professions, as well as the orthodox prescribing and sale of medicines. The prescribing of specialities, it is true, is very convenient for doctors and veterinary surgeons, since it saves them the trouble of writing out difficult prescriptions, but, on the other hand, it renders all treatment stereotyped, and when the public perceives that this or that speciality is prescribed in a certain disease it resorts to its use on occasion, to its own moral and material prejudice, as well as that of the medical and veterinary professions. In selling specialities the pharmacist is not able to utilise his knowledge and experience in compounding medicines, and is reduced to the level of a mere intermediary." In the Bill a medicinal speciality is defined as "a simple or compounded remedy, prepared according to a medical (or veterinary) prescription from therapeutically active substances, put up in a special form ready for delivery to the public, or for the doctor's use, and differing from already introduced remedies by possessing new properties or special advantages." Simple organo-therapeutic products, bacteriological preparations, sera, vaccines, natural and artificial mineral waters do not constitute specialities. In doubtful cases the Ministry of Health will decide whether a given preparation is to be regarded as a speciality, and in the case of remedies for veterinary use the Minister for Agriculture will be called in to give his opinion. Specialities will be divided into two categories: (a) domestic—those sold only in the pharmacy in which they are actually prepared; (b) general—preparations allowed to be sold in every pharmacy. The manufacture, advertising, and also the wholesale distribution of pharmaceutical specialities, whether of national or foreign origin, may be undertaken solely by a Czecho-Slovak qualified pharmacist, who must be the actual working owner or responsible lessee of a pharmacy in the republic open to the general public. This is a provision which figured in the former Austrian regulations, whereby only qualified proprietors of pharmacies could act as distributors for native or foreign specialities, a proviso included in the new Austrian, Jugo-Slav, Polish, and Spanish laws. The application for registration must contain full particulars concerning the preparation. The registration fee will amount to 200 Czech crowns; in addition, on presenting the application a sum of 200 crowns will have to be deposited towards defraying the cost of analysis; this amount will be returned should registration be refused. Preparations the manufacture and sale of which were permitted prior to the enactment of this proposed measure will be granted a period of one year to obtain registration under the new regulations. The publication of the full text of the Bill will be awaited with interest, but the foregoing *exposé* of its tenor indicates that it will, on the whole, closely resemble the corresponding laws enacted in the neighbouring Austrian Succession States, and also in Spain, during the past few years.

Linseed Oil Position

DURING the past six months the abnormally large exports of both linseed and the oil product, particularly to the United States, has been the subject of considerable interest on this side. As a fact this movement has proved to be the main sustaining factor in upholding prices. The American demand has now almost ceased, although orders can be placed here at well below the inflated figures at which American purchases were effected so freely last spring. The market prospects for the second half of the year are therefore somewhat uncertain, although prices show a fair degree of stability in spite of the absence of American support. The outlook as regards the seed seems clear enough, having been materially strengthened by the huge quantities shipped from the River Plate to the United States, which for the first six months of this year amounted to 444,000 tons, in addition to small quantities of Indian seed. That amount is well in excess of the shipments to the Continent and this country combined, as will be seen from the figures we give below. Developments within the next few months chiefly depend on the extent of the out-turn of the American and Canadian crops, in regard to which it is much too soon to expect any reliable forecast. Should anything go seriously amiss with these crops, or the yield not promise to turn out much better than the poor returns of last season, there is no doubt that the American demand for the balance of the Argentine crop will be accelerated, and that importations of European oil will be resorted to again on a large scale towards the autumn. American consumption last year eclipsed all previous "records," but one would now hardly hesitate to entertain more conservative views as to its future progress, seeing the nervous feeling which has developed in transatlantic trade under a marked process of deflation in values. Our total exports of linseed oil during June disclosed a renewed material increase to 7,206 tons, so that the aggregate for the six months represents 22,433 tons, of which approximately about three-fourths have gone to the United States. The returns for the first half of 1922, however, were much heavier at 43,788 tons. The important part played by the United States has chiefly accounted for the wide fluctuations within the past and the current year. The two extreme points recorded in 1922 for spot oil in London were £28 15s. and £45, and the price, after closing in that year at £39, moved up again some time ago to as high as £53 under pressure of American buying, and the market certainly now shows considerable resistance at a level about £10 per ton below that figure. A significant feature is that the discount on forward positions, compared with spot oil, is approximately £5 per ton, or practically one-half what it was when the American demand was in evidence, and there does not seem to be any eagerness to take orders on distant contracts in the neighbourhood of £38. While there is not much prospect at present of any further cheapening of c.i.f. terms for raw material owing to its stronger position, and the fact that only about 200,000 tons are still available for shipment from the River Plate, besides some 150,000 tons from India, uncertainty as regards linseed oil lies chiefly in the matter of consumption. There is no doubt that the European manufacturing trades, although they are better than they were, will remain for some time handicapped by adverse economic and political conditions. The seriously debased Continental exchanges tend to keep down importations of raw material, and, as one of the most important industries using, under normal conditions, very large quantities of linseed oil, manufacturers of linoleum and

similar material are still confronted with poor trade prospects. A revival of this industry depends also to some extent on cheaper raw material, especially linseed and its by-product, which are still at fully double pre-war costs. But for America's extraordinary industrial activity within the last twelve months or so, prices would probably be considerably lower than they are; but anything like a substantial adjustment is certainly too much to expect until the approach of the next River Plate crop, and provided its yield promises to pan out well in excess of the current crop. The cultivation of linseed will probably be encouraged by the comparatively high prices ruling at £19 10s. to £20 10s., as these assure producers of a substantial margin of profit. The returns of shipments of linseed for the first half of this year are very interesting, being as follows:—

	Tons.
From the River Plate to United Kingdom ...	167,600
" " " Continent ...	243,000
" " " North America ...	444,000
" " " Australia ...	4,000
Total	<hr/> 858,600
For the same period in 1922 ...	447,700
From India to United Kingdom ...	116,850
" " " Continent ...	79,525
" " " U.S.A. ...	1,025
Total	<hr/> 197,400
For the same period in 1922 ...	159,175

The combined grand total shipped from the River Plate and India to all countries for the first six months of this year thus represents 1,056,000 tons, against 606,875 tons for the corresponding period in 1922. The heavy American takings are the most striking feature.

New Books

Wellcome Chemical Research Laboratories. Reprints of *The Chemotherapy of Antimony* (Fargher & Gray), *Chenopodium Oil* (Henry & Paget), *The Constituents of the Flowering Tops of Artemisia Afra*, *Jacq.* (Goodson), *Mercury Compounds of Hydroxybenzaldehydes* (Henry & Sharp), and *Silver Salvarsan* (Gray). 6 King Street, London, E.C.1. [These monographs, numbered 192 to 196 respectively, are reprints from various science journals and transactions, and relate to research carried out in the Laboratories within the last two years.]

Custom House Guide and United States Customs Tariff, 1923. Published by the "Custom House Guide," Brokers' Rooms, Customs House, New York. 7½ in. by 5 in. Pp. 1513. \$5.00. [This annual, which has been issued yearly since 1862, is published under the supervision of government officials, and is of considerable value to all who are interested in trading with U.S.A. Special sections describe the principal Customs ports, including those of Canada, Mexico, Porto Rico, etc. There is a classified directory of exporters, importers, etc., and the complete United States Customs Tariff is given, with a special alphabetical index.]

Maiden, J. H. *A Critical Revision of the Genus Eucalyptus*. 12 by 9½ in. Vol. VI., Parts 6, 7, 8 and 9. 3s. 6d. each part. [John Spence, Acting Government Printer, Sydney.] These parts bring the complete work up to Part 59. The eucalypts dealt with are: *Eucalyptus Jensen*, *E. Umbrarrowensis*, *E. leuophylla*, *E. uncinata*, *E. angusta*, *E. marginata*, *E. buprestium*, *E. Bosistoana*, *E. altior*, *E. conblobata*, *E. angulosa*, *E. Johnstonei*, *E. agglomerata*, *E. Simmondsii*, *E. sepulcralis*, *E. torquata*, *E. Kalganensis*, *E. melanozyylon*, *E. Isringiana*, *E. aggregata*, *E. collina*, *E. Flocktoniae*, *E. Shirleyi*, *E. Rummeryi*, *E. Herbertiana*, *E. Comita-Vallis*, *E. longifolia*, *E. citriodora*, *E. hemiphloia*, *E. microcarpa*, *E. albens Miquel*, *E. pruinosa*, *E. melanophloia*, *E. Gunnii*, *E. longicornis*, *E. propinqua*, *E. haemastoma*, *E. micrantha*, *E. shiresii*, *E. cructs*, *E. Flocktoniae*.

Summer Outings

Bleasdale & Co.'s Outing

THE employees of Bleasdale, Ltd., wholesale chemists, York, had an enjoyable day amid the beautiful surroundings of Coxwold. After leaving York, the party



proceeded to the Wolds, passing through the villages of Huby and Crayke, and a short stay was made at Coxwold. They then proceeded to Byland Abbey and Wass. Tea was provided at Coxwold, after which sports were held.

A Picnic at Blackpool

THE annual picnic of the employees of Edward Taylor, Ltd., Salford, was held on July 14. The party travelled in reserved compartments from Manchester to Blackpool, where arrangements had been made for luncheon and tea at the Tower Café. During luncheon a telegram was handed to the company's secretary, containing wishes for a pleasant day from the managing director, who, unfortunately, could not attend owing to the fact that he is just recovering after a serious operation. Suitable remarks with reference to the occasion were made by the secretary and works manager during the tea, and a most enjoyable time was spent in and around Blackpool.

Sunderland and Newcastle Chemists' Outing

On July 11 members of the Sunderland Branch of the Pharmaceutical Society combined with the Newcastle-on-Tyne and Durham chemists and paid a visit to Bishop Auckland. They were welcomed on their arrival by Mr. Harburn, a local chemist, who then took them to the chapel of the Bishop's Palace, which contains some beautiful stained glass and objects of historical interest. Afterwards an excellent tea was served at the King's Café and sports were held in the Bishop's grounds, the chief event being the annual tug-of-war between Newcastle and Sunderland, which, after a struggle, Newcastle won.

Visit to Cheltenham

THE Oxford Chemists' Association, on the occasion of the summer outing, visited Cheltenham, going by way of Witney and Northleach. High tea was served at the Plough Hotel. Mr. C. James and Mr. T. B. Wickham, president and secretary of the Cheltenham Branch of the Pharmaceutical Society, were invited to meet the Oxonians at tea. Mr. J. T. Mountain, the president of the Oxford Association, welcomed the guests. The health of the ladies was proposed by Alderman Clayton, to which, on their behalf, Mr. H. O. Oddy replied. Mr. H. C. Goodall announced he had brought to the festive board the Oxford collecting box for the Benevolent Fund of the Society, which was then circulated. After tea the party spent an hour exploring the beauties of Cheltenham. The return journey was made via Cleeve Hill to Broadway, where, at the hill top, light refreshments were served. The journey was resumed through Chipping Norton and Oxford was reached about half-past nine. The weather was perfect, and, thanks to the efforts of Mr. Goodall, who was helped by Messrs. Bellamy and Loxley, the outing proved most enjoyable.

Halifax Chemists' Outing

ON July 12 the Halifax Chemists' Association held their annual outing. The almost tropical weather made it difficult to keep cool, but motoring offered a possible solution, and this, together with baskets of strawberries generously provided by the President (Mr. Percy Swire), proved highly successful. Two charabancs travelled by way of Burnley and Whalley to Stoneyhurst College, and the visitors had an opportunity of inspecting the interior of this fine building, with its library of 40,000 volumes, its picture gallery, museum, etc. Afterwards high tea was served at the Hodder Bridge Hotel. The return journey was by way of Clitheroe and Gisburn.

Portsmouth Chemists Visit Selborne

THE Portsmouth Chemists' Association held their summer outing recently, when Selborne, near Alton, was the chosen venue, the journey being made by charabanc through delightful routes of the Hampshire and Sussex Downs. Selborne itself is noted as the home of Gilbert White, naturalist and historian, the visit of the chemists coinciding with the 130th anniversary of his death. The party is indebted to Mr. W. H. Bown for his conductor-



ship. He had arranged refreshments of a high order and secured admittance to the house and grounds of "The Wakes," the extensive vicarage gardens and the hangars. The weather being ideal, the excursion occasioned great pleasure.

Visit to Hatfield

THE annual outing of the West Ham Association of Pharmacists took place on July 12. The party left Forest Gate Station in three large charabancs for Hatfield, passing through the beautiful Epping Forest district, Waltham Abbey, Waltham Cross, Cheshunt, Broxbourne, Hoddesdon, and over the hill to Hertford, where a short halt was made. Arriving at Hatfield, the party was shown over the historic mansion of the Marquis of Salisbury. After a short stroll through the park, high tea was served at the Red Lion Hotel, the President (Mr. J. Reed) being



in the chair. Following this, a photograph was taken on the lawn. The return journey was made via St. Albans (a short halt being made to visit the Abbey), Potter's Bar, Enfield, and Chingford, Forest Gate being reached about 11 p.m. Altogether it was a most enjoyable and successful outing, and the President and social secretary (Mr. B. Wathen) are to be congratulated on the way it was carried out.

Pharmaceutical Society of Great Britain

Examination Results

THE following are the results of the Society's examinations held in London and Edinburgh this month:—

LONDON

Major Examination

Nineteen candidates were examined; the following eight passed:—

Barton, L. H.	Read, P. R.
Ellis, Josephine M.	Russell, John.
Hampson, J. R. R.	Smith, C. H.
Kohler, H. W.	Willett, A. E.

Qualifying Examination

No.	PART I.			PART II.		
	Absent	Referred	Passed	Absent	Referred	Passed
Entered for whole Examination	298	11	43	150	6	34
Entered for Part II, and referred subject in Part I.	49	1	12	36	2	4
Entered for Part I, only	183	5	23	86	—	—
Referred subject in Part I, only	16	—	2	14	—	—
Entered for Part II, only	118	—	—	—	5	24
Referred subject in Part II, ...	100	—	—	—	1	39
	764	17	80	286	14	101
						183

Referred in one subject:—Botany, 33; chemistry, 46; physics, 1; materia medica, 18; pharmacy, 79; poison law, 4; total, 181.

PART II.

The following, having satisfied the examiners in Part II., have been registered as chemists and druggists:—

Ackerley, A., Birkenhead.	Coward, G., Islington.
Atkins, W., Netherfield.	Cromack, Hilda M., Stourbridge.
Avis, B., Hounslow.	Danks, Percy, Darwen.
Baker, C. V., Ealing.	Drinkwater, A. J., Bexwick.
Banks, A. D., Bridlington.	Edwards, D. R., Porthcawl.
Barnett, C. P., Uppingham.	Edwards, J. H. M., Wrexham.
Baron, A. R., Hindley.	Elysey, F. S., Tunbridge Wells.
Betts, John, Bristol.	Evans, D. T. R., Newport.
Biggs, S. W. J., Dudley.	Farrow, H. C., Canterbury.
Billington, J. E., Sheffield.	Fox, George, Penzance.
Bolton, Harry, Cardiff.	Gedge, C. E., Malvern Link.
Eensor, Mabel S., Highfield.	Gee, D. D., Stockport.
Booth, H. H., Hoxton.	Gregory, Helen M., S. Kensington.
Boulding, S. W., Herne Bay.	Haley, H. G., Witney.
Bowler, H. V. W., Camberwell.	Hallam, Jessie N., Mansfield.
Brearley, R., Birstall.	Kaslam, Dorothy M., Egerton.
Brewer, Pertha E., Bath.	Heasman, A. C., Shoreham.
Brockwell, H. A., Maidstone.	Hedley, T. C. P., Rushden.
Brown, Winifred, Bradford.	Hermann, E., Newcastle.
Burbridge, H., Spalding.	Hills, E. G., Chelsea.
Castle, C. F., High Wycombe.	Hobart, F. G., Stepney.
Church, F. H., Swanage.	Hubbard, J. H., Rustington.
Clark, Albert, Keighley.	Isaacs, Isaac, Merthyr.
Clark, Hilma G., Southampton.	Jannaway, L. W., Eltham.
Clark, W., Herne Hill.	Jewell, F. A., Cardiff.
Clarke, F. W., Newcastle.	King, Frank, Wigan.
Cohen, David, Hackney.	Kingsford, P. G., Deal.
Cousins, Florence, Shipley.	

Knowles, Marjorie, Hove.
Lamb, R. E., Grantham.
Lemon, Percy, Derby.
Lewis, W. B., Bristol.
Lowe, J. T., Liverpool.
Lyons, Frank, Chorley.
Manton, A. L., Sheffield.
Marks, Louis, Leeds.
Masterton, G., Appleton.
Melhuish, L. V., Crediton.
McKee, Tom, Worksop.
Monkhouse, Edith M., Ealing.

Moore, D. H., Weston-super-Mare.

O'Meara, Annie M., Liverpool.

Owen, J. P., Port Dinorwic.

Palmer, H., Cheltenham.

Farkin, T. E. F., Buxton.
Fennington, J., Ashton-in-Makerfield.

Pinchin, R. C., Bournemouth.

Proctor, W. S., Heanor.

Randles, W. B., Pimlico.

Robinson, Z., Leeds.

Rugg, B. W., Boreham Wood.

Russell, R. C., Tinsbury.

Sale, H. R., Fulham.

Sawyer, H. L., Oldham.

Scragg, A., Biddulph.

Sharman, Edna E., Brighton.

Shearman, S. J., Haverhill.
Shelton, G. N., Clapham.
Siroto, Jacob, Dublin.
Slater, H., Blackburn.
Sleath, A. K., Eastwood.
Smith, J. V., Battersea.
Stanier, W., Gosport.
Summer, Mildred A. G., Rickmansworth.

Sweatman, Marjorie M. B., Caversham.

Thomas, G. E., Hove.

Thomas, H. J., Cardiff.

Townend, Mabel, Bradford.

Tree, D. A., St. Leonards.

Ufton, P., Edgbaston.

Vickers, F. G. H., Gainsborough.

Wallis, Walter, Ashton.

Walsh, J. R., Stockport.

Watkins, T. M., Tufnell Park.

Weinbrenn, S. L., Johannesburg.

Weston, G. L., Ealing.

Wetton, J. R., Birmingham.

Whick, A. A. C., Wolverhampton.

Whiteway, R. L., Old Swan.

Williams, B. Mary, Barry.

Williams, R. J., Churlog.

Wood, Eric, Eastbourne.

PARTS I. AND II.

The following candidates, having satisfied the examiners in Parts I. and II., have been registered as chemists and druggists:—

Aldridge, G. A., Burton-on-Trent.

Averns, E. L., Earlsdon.

Bancks, H. A., Abergavenny.

Band, Clara C., Birstall.

Bastow, S. W., Chichester.

Fee, E. G., Worcester.

Beck, H. K., Enfield.

Frackenbury, Olive E., Middlesbrough.

Bradley, Cora M., Hereford.

Browne, Katherine B. S., Canterbury.

Bryars, J. F., Sheffield.

Byrde, Christine C., Bedford.

Carter, D. L., Bradford.

Chadwick, A. E., Clapham.

Codner, R. H., Torquay.

Cripwell, Phyllis M., Nottingham.

Damesick, I., Broughton.

Dent, F. L., Wolverhampton.

Dixon, J. H., Blackpool.

Eaton, R. W., Bournemouth.

Elford, I. G., Surbiton.

Flinson, W., Cockermouth.

Fennell, A. G., Tunbridge Wells.

Fletcher, D., Carnforth.

Foulds, Alice E. M., Marylebone.

Fowles, Vera M., Wootton-under-Edge.

Gemmer, Irene M., Twickenham.

Griffiths, W. M., Cardiff.

Hallowell, F., Southport.

Handyside, G., Huyton.

Henson, H. E., Sparkhill.

Hodge, E. G. W., Whimple.

Hedge, S. W., Newlyn.

Hodson, Leo, Anfield.

Hene, A., Chichester.

Jacklin, R. P., Hillsborough.

Jacobson, B. A., Benoni.

Jones, H. F. H., Exeter.

Kent, Edith M., Stourbridge.

Kirkwood, Catherine S., Wallington.

Lee, M. J., Devonport.

Lewis, J. E., Merthyr Tydfil.

Lyon, J. H., Barrow-in-Furness.

Martin, H. R., Lincoln.

Meng, Moody, Bloomsbury.

Miller, J. G., Brighton.

Morgan, S., Treherbert.

Mountford, E., Tunbridge Wells.

Newton, Winifred A., Balham.

Nugent, G. J., St. Dogmaels.

Owen, B., Chelsea.

Palmer, F. J., Colchester.

Pyne, C., Southampton.

Rundle, G. P., Exeter.

Saunders, A. C., Thorne, Exmouth.

Sharp, J. R. S., Northampton.

Short, A. C., Bideford.

Silk, A. J., Caversham.

Smart, P. F., Carlton.
Smith, Tom, Morecambe.
Spilsbury, H. W., Kidderminster.
Swift, C., Sheffield.
Turner, R. F., Hereford.
Tyrwhitt, H. E., Bristol.
Underwood, Dorothy L., Windsor.
Watson, R. H., Hull.
West, H. L., Southsea.

Williams, Enid E., Bangor.
Wood, Emily M., Arnold.
Wood, F. H., Balham.
Woolfson, H., Johannesburg.
Woosnam, W. L., Worthing.
Worthington, F. L., Wellington.
Wycherley, F. H., Stanton Hill.

Seatter, A. M., Rotherham.
Shearer, Catherine M., East Newport.
Shearer, Donald, Glasgow.
Sheen, G. A., Leeds.
Sim, Margaret A., Portgordon.
Soutar, Annie B., Elgin.

Stout, Jessie A., Lerwick.
Swain, J. A., Morecambe.
Syme, William, Alva.
Thomson, Johan, Dumbar-ton.
Thomson, R. J., Kilmar-nock.
Westland, William, Alva.

EDINBURGH Major Examination

Twelve candidates were examined; the following seven passed:—

Campbell, A. D., Blairgowrie.
Carruthers, James, Edinburgh.
Hunter, M. V., Musselburgh.

Mace, Mary, Edinburgh.
Pearson, J. R., Turriff.
Spence, John, Aberdeen.
Turner, Jean H. S., Edinburgh.

Qualifying Examination

No.	PART I.			PART II.			
	Absent	Referred	Passed	Absent	Referred	Passed	
Entered for whole Examination	75	1	24	40	6	11	19
Entered for Part II, and referred subject in Part I.	24	1	8	15	1	4	5
Entered for Part I, only	75	3	25	24	—	—	—
Referred subject in Part I, only	21	1	4	16	—	—	—
Entered for Part II, only	73	—	—	—	1	17	45
Referred subject in Part II, ...	25	—	—	—	1	12	12
	293	6	61	95	9	44	81

Referred in one subject: Botany, 14; chemistry, 43; physics, 4; materia medica, 5; pharmacy, 39; total, 105.

PART II

The following, having satisfied the examiners in Part I have been registered as chemists and druggists:—

Adams, Elizabeth B., Glasgow.

Bain, Jean G., Falkirk.

Bain, Joseph, Glasgow.

Boardall, H., Halifax.

Bolton, Elsie A., Dingwall.

Brookes, L., Cleveleys.

Cairns, John, Dumfries.

Chapman, J., Low Banton.

Coope, W. R., Horbury.

Crawford, A., Glasgow.

Currie, G., Edinburgh.

Davison, Alice M., New-

castle-on-Tyne.

Dawson, G. P., Aberdeen.

Duncan, A. C., Montrose.

Erskine, Jean W. J., Lar-

bert.

Findlay, Christina, Gran-

town-on-Spey.

Fraser, J. W., Aberdeen.

Garner, Alfred, Eccles.

Gilchrist, Jean P., Muir-

kirk.

Gillies, J. B., Edinburgh.

Harper, Robert, Thorn-

hill.

Hedderwick, G., Edin-

burgh.

Irvine, Clementine B., Ler-

wick.

Johnson, T., Southport.
Jones, Gladys E., Walla-

say.

Laing, A. R., Manchester.

Layfield, J. W., Burnley.

Lee, John, Darlington.

McConnachie, Kate G.,

Keith.

McCrae, A., Dalry, Ayr-

shire.

McDonald, Annie T., In-

verness.

McGeorge, W. R., Glas-

gow.

Mackay, Margaret G., Car-

cisle.

Millar, P., Musselburgh.

Milne, H. R., Edinburgh.

Munro, F. S., Dundee.

Passmore, W., Leeds.

Patrick, A. K., Falkirk.

Payne, James, Dalkeith.

Peters, Norah, Aberdeen.

Robertson, W., Dundee.

Riddoch, W. (Jr.), Aber-

deen.

Ronchetti, A. S., Stockton-

on-Tees.

Sanders, A., Lockerbie.

Scott, J. R., Seaton.

PARTS I AND II

The following, having satisfied the examiners in Parts I and II have been registered as chemists and druggists:—

Atkinson, W., Harrogate.
Barrass, J. G., Doncaster.
Bell, David, Lockerbie.
Benson, Robert, Glasgow.
Black, H. L. S., Anstruther.
Brown, D. M., Edinburgh.
Bryson, Wilhelmina, Edinburgh.
Grierson, R. H., Castle Douglas.
Hadden, G. L. N., Edinburgh.
Hetlington, J., Moffat.
Johnston, A. G. E., Keith.
Law, Mary J., Glasgow.
Lodge, J. A., Wilsden.

McDougall, A. C., Hunter's Quay.
Main, F. N., Whitley Bay.
Mann, Robina, Dundee.
Masterton, D., Edinburgh.
Stewart, R., Buckie.
Storrar, J. B., Burnt-island.
Thom, Florence J. R., Edinburgh.
Thomson, J. A., Edinburgh.
Thornton, C. W., Dewsbury.
Titterington, Ruth, Grey-stoke.
Wright, N., Redcar.

Branch Meetings

Reading.—At a meeting, on July 11, of chemists from Reading, Maidenhead, Camberley, Farnborough, Newbury, Wallingford, Windsor and Aldershot, it was decided to form a branch of the Pharmaceutical Society, to be known as the Reading and District Branch. The meeting was addressed by Mr. Mains. Mr. G. B. Osborne, Reading, was elected *Chairman*; Mr. R. Wood, Reading, *Secretary*; and Mr. Pitchford, Maidenhead, *Treasurer*, and a committee of eight members was appointed, together with the officers.

Westminster Wisdom

By the "C. and D." Parliamentary Representative

EXPIRING LAWS CONTINUANCE BILL

This bill, which is before the House of Commons, provides for the continuance of certain Acts of Parliament which would otherwise expire. Among the Acts mentioned in the schedule are the Shops (Early Closing) Act, 1920, and the Summer Time Act, 1922.

THE SUPPLY OF INSULIN

Sir W. de Frece asked the Minister of Health, on July 16, what steps are being taken to bring the insulin treatment within the reach of the very poor?

Lord E. Percy replied that it is within the powers of guardians, on the advice of the medical officer, to pay for the supply of insulin in cases of destitution.

SEAMEN AND VENEREAL DISEASE

Standing Committee D reported the Merchant Shipping Acts Amendment Bill to the House of Commons for third reading. Under the existing law a sailor or shipmaster suffering from venereal disease at a foreign port who has his pay stopped must pay for his own maintenance and treatment in hospital and later find his way home at his own expense. The object of the Bill is to prevent concealment, neglect of treatment, and spread of infection, and proposes, therefore, to provide for free treatment and conveyance from foreign ports of distressed British seamen suffering from venereal disease. The cost is to be collected from shipowners, as in the case of any other disease or accident.

Association Affairs

London (S.E.).—The annual meeting of the S.E. London Chemists' Association was held on July 10, Mr. Milner (President) in the chair. The Treasurer (Mr. Ralph) reported that the income for the year was £33 16s. 5d., and expenditure £18 15s. 11d. There was a balance on the general fund of nearly £40. The report and balance-sheet were adopted. The secretary then read his report, and the committee was afterwards re-elected, with the addition of Mr. Hunt (Greenwich). Mr. Milner proposed that Mr. Ralph be elected President, and this was agreed to. The Secretary and Financial Secretary were re-elected, also the Auditor, Mr. Elkington. A sub-committee was formed for the purpose of revising the rules of the Association.

London (S.W.).—The annual meeting of the South-West London Chemists' Association was held recently, the President (Mr. E. A. Atkins, Ph.C.) in the chair, when the following officers were appointed: President, Mr. G. A. Barratt; Treasurer, Mr. H. A. Mills; Secretary, Mr. D. A. Rees; Social Secretary, Miss A. T. Borrowman. The above will form the council, together with Messrs. F. G. Wells and E. Skues (Vice-Presidents), and Messrs. Beech, Mason, Shakerly, Harris, Jones, Monaghan, Pretty, Thomas, and Mrs. Mills. The retiring President (Mr. E. A. Atkins) paid a tribute to his successor (Mr. Barratt), who was elected unanimously. A satisfactory balance-sheet was presented by the Treasurer.

Harrogate.—The Harrogate and District Branch of the Pharmaceutical Society was formed recently, when Mr. T. E. Handford was elected President and Mr. P. L. Ridge Secretary.

Plymouth.—At a joint meeting of the local branches of the Pharmaceutical Society and the Retail Pharmacists' Union, held recently, it was reported that the late Association had £16 in hand when it closed down. It was decided to pass over 45 per cent. to the R.P.U. branch and the remainder to the branch of the parent society, after clearing off any outstanding debts. The subscription for the current year was fixed at 3s. per member for each branch. Mr. J. Davy Turney was appointed delegate to the British Pharmaceutical Conference. On a discussion of the educational suggestions of the Society, it was agreed that apprentices should only be indentured after passing the Preliminary examination, of which it was not desirable materially to advance the standard at present. Several cases of infringement of the local Closing Order were reported, and it was decided to follow them up. Messrs. Shelton, Gollop and Spear were nominated delegates to the conferences of the South-Western Group of R.P.U. branches.

Portsmouth.—The annual meeting of the Portsmouth Pharmacists' Association was held on July 11, Mr. A. B. Sparrow presiding. The treasurer's report was adopted, and from balance in hand grants voted included: Benevolent Fund, £3 3s.; Orphan Fund, £2 2s. The membership of the Association remains unchanged at 65. Mr. Bown, as social secretary, detailed the many ventures successfully carried out. Mr. W. R. Atterbury was then elected President. His first duty was to pay tribute to his predecessor, Mr. Sparrow, for his services during his term of office. The other officers are as follows: Vice-President, Mr. Bown; Treasurer and Secretary, Messrs. Egerton and Ruoff; Committee, Messrs. Coates, Darling, Eyres, Fry, Hemming, Rhodes and Thorne and the officers. Mr. Hemming conveyed the thanks of the municipal authority for the volumes of the Codex presented by the Association and won by students West and Pine. At the close of the business the new President entertained the company to tea.

Sheffield.—The annual general meeting of the Sheffield Pharmaceutical and Chemical Society was held recently, Mr. A. Knowles presiding. The secretary presented his report for the year. The balance sheet showed a balance of £20 13s. 5d.. A donation was made to the Benevolent Fund of the Pharmaceutical Society of £10 10s.

The rules were altered for a reduced annual subscription of 7s. 6d. The following officers were elected for the year: President, Mr. H. B. Hammond; Vice-Presidents, Mr. H. Bown and Mr. J. Austen; Treasurer, H. Antcliffe; Secretary, Mr. H. H. Greenfield; Librarian, Mr. W. Gregory; Auditors, Messrs. S. Furnival and J. S. Oswald.

Wolverhampton.—A meeting of the Wolverhampton Chemists' Association was held on July 4, when Mr. L. J. Reade, Ph.C., lectured on *The Wrekin*, a well-known Salopian landmark. He treated the subject mainly from a geological point of view, illustrating the lecture with rock specimens and interesting diagrams. This was done as a preparation for the next day's outing, when some forty members and friends made the journey by road to the Wrekin itself. The weather was perfect, and the ride through the pleasant Shropshire country was most enjoyable. Tea was provided at "The Cottage," half-way up "the mountain."

East Anglian Federation

A MEETING of the East Anglian Federation was held at the Masonic Club, Great Yarmouth, recently, the President (Mr. J. A. Symonds) in the chair. There was an attendance of thirty-six members. Mr. Beeston (Norwich) read an interesting paper relating to the Dangerous Drugs Act and the sale of poisonous preparations, outlining the features of the Act together with the new Regulations which came into force in May. Mr. Beeston stated that after searching carefully he could find nothing in the Acts to relieve the pharmacist of making an entry in the D.D.A. register of a transaction with regard to Insurance prescriptions. He suggested that chemists should be grateful for the concessions which have been granted, and that thanks are due to the Pharmaceutical Society for the part it has played. An interesting discussion ensued, and at the conclusion a hearty vote of thanks was accorded to Mr. Beeston. It was agreed to furnish copies of the new D.D.A. Act to secretaries of the constituent associations for disposal amongst their members. Mr. Milbank (Bishop's Stortford) introduced the subject of the supply of B.P. standard chemicals and drugs in the course of retail business. He pointed out the difficulties that must arise where the commercial quality of various articles is stocked in addition to the B.P. article, and he thought some definite rule should be followed in regard to the labelling of the commercial article. He suggested that this could be met by wording the label "Commercial Quality" or "Not B.P. Standard"; after considerable discussion, the general feeling of the meeting appeared to be that it would be preferable to label such articles "Commercial Quality." A vote of thanks was accorded to Mr. Milbank. It was proposed that the next meeting should take place on September 27, the place to be arranged later. The meeting was followed by a dinner to which ladies had been invited, and at this function about seventy were present. The President was in the chair, supported by Mr. F. E. Whitfield, President of the Great Yarmouth Association. Several local artists, who had been invited, contributed largely to the pleasure of the evening with songs, violin solos and humorous entertainment. The toast of "The Federation" was given by Mr. P. Robinson (Norwich), and was responded to by the President. "The Ladies" was in the able hands of Mr. Bodger; it was responded to by Mrs. Brown (Lowestoft) in a speech conspicuous by its brevity. The local Association, coupled with the name of its President, was given by Mr. Smalley (Ipswich), and, in responding, Mr. Whitfield let the company into the secret of the success of the Yarmouth Association. A vote of thanks to the same Association, coupled with the name of the secretary, Mr. T. B. Male, was given by Mr. Tydeman, who said that all would agree the evening had been a marked success. Mr. Male suitably replied, adding that it was a pleasure to the local Association to be the first to arrange a dinner to which the ladies had been invited. A collection for the Benevolent Fund of the Pharmaceutical Society realised £3 3s. 8d.

Proprietary Articles Trade Association

THE twenty-ninth annual meeting of the Proprietary Articles Trade Association took place at the Holborn Restaurant, London, W.C., on July 12, when Mr. J. A. South (President) occupied the chair. The CHAIRMAN, in moving the adoption of the report and accounts (see *C. & D.*, July 7, p. 14), pointed to the satisfactory increase in their membership and to the influence attending their actions. One great loss they had sustained was in the departure of Mr. H. Glyn-Jones. He (the chairman) understood, however, that his services were not entirely lost to them, as Mr. Glyn-Jones meant, in his new capacity, to specialise in pharmaceutical work. There had been a marked increase in the number of co-operative societies which had joined the Association. It was also satisfactory to record that there was far less "cutting" going on; in fact, it was just about half what it was last year. He hoped the time was not far distant when the "cutter" would entirely cease to cut. Their finances were satisfactory, and the comparison with last year was particularly so.

Mr. PICKARD seconded, stating that the report was an admirable one, and the great decrease in cutting was highly satisfactory. In his opinion the grocers were now seeing the error of their ways. He had recently addressed a meeting of grocers on "cutting," and as a result of that meeting a resolution was passed adopting a system of price maintenance and binding themselves to contribute the necessary subscription.

Mr. BOND HICKISSON said he learnt with pleasure the successful outcome of the action taken by the Retail Pharmacists' Union in regard to membership. Recently he had heard that the stationers were getting together on the subject of proprietary articles. One point which he would like to emphasise was that the 200 new members they had obtained were mainly of the younger generation, who had never been much concerned with the very bad old days when cutting was particularly rife.

Mr. KEITH said that, being a Scot, he could not help referring to the fact that the Year Book this time had cost them £300. Surely that should not be the case if they obtained a sufficiency of advertisements. The "Anti-Cutting Record" cost them nothing, and he would like to see both publications enjoying that position. He would also like to know from the secretary how many traders received copies of the Year Book and did not pay anything towards its cost. To him it appeared there were a great many people who received the Year Book but were entirely outside the Association. The multiple-shop firms were particular offenders in that respect.

The SECRETARY said the loss on the Year Book referred to 1922, before the existing agreement with the publishers was entered into. Under present arrangements the publishers assumed all liabilities, but the Association would share in any profit that was made. In future, therefore, there would be no debit under that heading. As the Association held that the goods in their list should only be sold at a certain price, there was naturally the obligation upon them to bring this before the notice of traders, whether they were members or not. If that was not done, then the defaulting trader had the excuse to make that he was unaware of any fixed price for the article. The multiple shops usually paid the Association for copies of the Year Book which were sent to the various branch establishments.

Mr. HIGGS said he was a regular attendant at the P.A.T.A. meetings, and he was convinced the Association was going a great deal of good.

Mr. BIRKS said he was a wholesaler, and always impressed upon his travellers the necessity of their clients adhering to the Association price list, and suggested that all wholesalers do the same.

Mr. PICKERING thought a copy of the Year Book should be sent to non-members as far as possible, with a suitable "Complimentary" slip pasted upon it. In his view that was well calculated to stir up the delinquents.

Mr. HIGGS said he called upon a chemist to ask him to

join the R.P.U., and was told he could not afford to join that as it meant also joining the P.A.T.A.

Mr. SAUNDERS said he wanted to congratulate the committee upon publishing a list of unprofitable proprietary commodities. They might, he thought, usefully consider the possibility of extending that list. There were still many manufacturers who seem to think that the retailer was a man who worked automatically and who had no expenses at all. Years ago, perhaps, a trader could work successfully upon a 10 or 20 per cent. margin of profit, but to-day, with rent, rates and taxes higher, as well as labour and other charges, the 10 or 20 margin was quite insufficient. The P.A.T.A. propaganda committee used to meet every month and prepare a list of non-paying propositions, and it was curious to observe at the next meeting how many of the previous non-paying goods had become suitable for inclusion in the other list of paying propositions. It just showed how their influence was felt in trade circles. He thought, therefore, they should take their courage in both hands and always insist upon the 12½ and 25 per cent. margins of profit. After all, they were not quiescent door-mats for manufacturers to trample upon. He was quite sure there was still a large body of retail traders who had no knowledge of costs and were unaware of what the P.A.T.A. was doing. Therefore, if lists were prepared which showed plainly which were good paying propositions, and which were not, a large body of new members would come in.

Mr. KEITH supported the proposition.

Mr. BIRKS said that their wholesale lists showed in heavy black type which were P.A.T.A. goods, and if all wholesalers did that the retail traders would find it a considerable help.

Mr. HIGGS said he did not keep any goods which did not pay, and if the whole of retailers adopted that policy they would soon put an end to unprofitable business.

The CHAIRMAN said the matter was very important, and consequently it would not be well to make any hasty decision. He proposed, therefore, that the matter should be put before the Council at its next meeting, and then some concrete suggestions would be forthcoming on which the members could vote. This was agreed to.

The report and accounts were adopted.

Mr. GODBER proposed a hearty vote of thanks to the chairman for presiding, and said he was certain he would do everything possible to make the Association a still greater success. The resolution was seconded and carried with applause. Mr. South briefly replied.

COUNCIL MEETING

The quarterly meeting of the Council of the Association was held on July 12, the President (Mr. J. A. South) in the chair. Apologies for absence were read from Messrs. F. J. Smith, A. T. Webb, S. Watson, R. Gower and J. G. Atkinson.

Retailers and Private Price-maintenance Schemes.—The manufacturers of a widely-sold article which is on the P.A.T.A. Protected List have directed the attention of the Executive Committee to the apparent acquiescence of pharmacists in private price-maintenance schemes which permit co-operative societies to sell at the protected price, at the same time giving a dividend on sales. The manufacturers protest at the handicap placed upon them by their not being allowed to adopt such a system of price-maintenance as would put them on a footing of equality with their competitors. The Committee decided that a copy of the letter, embodying this complaint, be sent to the Retail Pharmacists' Union, with the request that the Executive Committee would consult members of the Union in the areas most affected by co-operative trading. The Executive of the Retail Pharmacists' Union have decided to place this subject upon the agenda of the group executives, and to make it a matter for discussion by branches during the autumn.

The Combined Price List.—Until recently the Combined Price List, which includes the "Anti-Cutting Record," had contained each month a list of suggested prices for proprietary articles not on the P.A.T.A. The publication of this list, for which the R.P.U. was responsible, not only caused confusion to retailers, who in

many instances regarded it as the official P.A.T.A. list, but dissatisfaction to members of the manufacturers' section, who contended that the publicity given each month to these non-P.A.T.A. articles was in the nature of an advertisement, which was not fair to themselves as members of the Association. The matter was discussed by the price list sub-committee of the Retail Pharmacists' Union and by a deputation representing the manufacturers' section, when the objections of the latter body were voiced. The outcome of this interview is that the Executive of the Retail Pharmacists' Union have caused the list of proprietaries to be deleted from the Combined Price List.

Resignation of Member of Council.—Mr. W. H. Woodward, a member of the manufacturers' section, has resigned his seat on the Council, and Messrs. Woodward have intimated that they do not desire to nominate a successor to Mr. Woodward. The question of the recommendation in regard to a successor has been considered by the section, who decided that they would make no recommendation at the present time.

Territorial Representation on the Council.—A suggestion has been received from the Irish Wholesalers' Association, that each section of the P.A.T.A. Council should in future consist of 14 members, the two additional members in each section to represent Ireland and Scotland respectively, the Irish representatives to be elected by Irish members, and the Scottish representatives by Scottish members. This proposal has been considered by the various sections, who are of opinion that it is not desirable that the change in the constitution of the P.A.T.A. entailed by this suggestion be made. The wholesale section have also considered a recommendation of the Northern Wholesalers' Conference, that arrangements be made for allocating on the wholesale section one seat for Scotland, one seat for Ireland, five seats for London, and five seats for English provinces. The section decided that further consideration of the matter be deferred until October.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports ENGLAND AND WALES

Birmingham.—The Pharmaceutical Committee held a meeting recently, when the secretary reported that a letter had been sent to the relatives of the late Mr. J. Wakefield, conveying the sympathy of the members with them in their bereavement. Two businesses had been added to the Panel during the month, and there was one withdrawal. Advice had been received from the Returning Officer that there would be no contest in this year's election, and that the following had been duly nominated and would constitute the committee for the ensuing term:—(Part I.) Messrs. J. W. Atkinson, J. T. Bell, H. Buckingham, E. S. Francis, G. Knowles, H. H. Marshall, Councillor J. Poole, Messrs. H. Rigg, W. Shakespear and W. H. Whittock; (Part II.) Messrs. R. E. Cooper and C. T. Thonger.—At a recent meeting of the Birmingham Insurance Committee, the Medical Service Sub-Committee recommended that a substantial deduction be made from the grant of a medical man who supplied and charged an insured person for medicine instead of ordering it on an Insurance prescription form. The doctor, the report said, stated that he could not possibly have given the same medicine on the panel as privately, because, although the important and major ingredient was identical in each prescription, the mixture supplied privately was a proprietary one, of which he did not know the complete formula, and was obtained direct and ready made from the manufacturer. Councillor W. D. H irons, in moving the adoption of the report, said this was a very serious breach of the medical regulations, and unfortunately a case of this sort lent colour to the idea that the same medicine was not supplied to private and panel patients. The doctor was at perfect liberty to prescribe this proprietary article

if he so desired, and consequently he was deluding the woman into the belief that she could have better treatment as a private patient. Dr. Bekenn said that in the minds of some patients doctors could not produce medicines with the characteristics of proprietary medicines, adding that even doctors would take patent medicines in preference to their own and get more benefit. The report was adopted.—The annual report of the Pharmaceutical Committee for the year ended May 31 has recently been issued. Details of the Drug Account for 1922 and a comparison with the previous year are as follows:—Number of prescriptions, 1,400,382 (18 per cent. increase); total value, £44,115 (9½ per cent. increase); average value, ingredients 2.60d. (5 per cent. decrease); average value, fees 4.96d. (9½ per cent. decrease); Pharmaceutical Committee's expenses (including cost of checking), 0.84 per cent. The number of persons and firms supplying drugs and appliances on the panel on May 31, 1923, was 159 (153 dispensing and 6 non-dispensing); the number of shops 214 (206 dispensing and 8 non-dispensing).—The first meeting of the newly-elected Pharmaceutical Committee was held on July 9, at which Mr. W. H. Whittock was re-elected *Chairman*, and Mr. F. Smith *Secretary*. The Secretary reported procedure in respect of "Methylated Spirit in Preparations," which has not yet been concluded. The annual report and statement of accounts was circulated on July 7. One withdrawal from panel was reported. No regular meeting will be held next month.

Blackburn.—The Pharmaceutical Committee, who have protested against the removal of a qualified chemist from the Pricing Bureau without reason, have decided to press forward the matter. The Ministry of Health stated that they were not prepared to act unless the efficiency of the work was jeopardised.—At a meeting of the Insurance Committee, Alderman Watson was nominated a representative on the Pricing Bureau for the No. 4 Area. Mr. R. L. Gifford, Ph.C., J.P., moved an amendment that Councillor W. H. Grimshaw, a chemist and druggist, and ex-President of Blackburn Chemists' Association, be elected in his stead. He said considerable dissatisfaction prevailed at the high cost of running these Bureaux, and he felt sure that a chemist on the committee would be a valuable asset so far as the administrative work was concerned. He was not satisfied that the recent action of the Bureau in dispensing with the services of a qualified chemist at the head had been for the best. It was the only Bureau in the kingdom, so far as he knew, which had not a qualified person on its staff. A prolonged discussion followed, and Councillor Grimshaw said, although he was not satisfied that the Bureau was run as economically as it might be, he was of the opinion that a qualified chemist should be at the head. He did not desire his name to go forward after the discussion, which might probably have some fruitful results. Accordingly, Alderman Watson and Mr. Hy. Whittaker were appointed.

Blackpool.—The number of insured persons entitled to medical benefit in the Blackpool area on January 1, 1922, was 22,635, and 25,353 on December 31. There has been an increase during that period in the insured population of 9,217, largely accounted for by the steady growth of the town. The financial statement of the clerk to the Blackpool Insurance Committee showed a balance in hand of £217 3s. 1d. on December 31, 1922, the total payments being £14,258 15s. 4d.

Bury.—The first meeting of the newly-elected Pharmaceutical Committee was held on July 4, at the offices of the Bury Insurance Committee, the members present being Messrs. A. W. Charnley, G. T. George, S. T. Wright, R. T. Sutton, and D. Williamson. Mr. G. T. George was elected *Chairman*, and Mr. D. Williamson *Secretary*. Mr. H. Simpson, chemist, Tottington, was co-opted a member. It was decided to approach the Insurance Committee with reference to the deletion of grey bandages from the tariff.

Carnarvonshire.—At a meeting of the Carnarvonshire Insurance Committee, on June 30, the report of the Panel Committee showed that during the past year five

doctors had over-prescribed, three of whom had been surcharged. The clerk explained that these excesses were largely due to the expensive character of some drugs. These surcharges were really due to the tremendous belief of the people in medicine, and in many cases the doctors prescribed on the psychological basis, though medical opinion held now that the fewer drugs a man had the better for him. He remarked that there was a tremendous amount of physic drinking in that district, and it was the duty of the doctors to educate the people on the point.

Exeter.—A meeting of the Devon Pharmaceutical Committee was held at Exeter recently, Mr. M. T. Foster presiding. The report of the Central Checking Bureau for December was received and approved, and a number of communications for the Committee from the Ministry of Health and R.P.U. headquarters were discussed. A letter from the Returning Officer, giving the names of the new Committee, was read.

Hertfordshire.—At a meeting of the Insurance Committee recently, it was reported that, although the number of persons for whom chemists dispense had increased from 82,898 to 88,349, the number of prescriptions dispensed during the quarter had declined from 92,082 to 80,228, while the total average cost per prescription had fallen from 9.44d. to 8.30d.

London.—The Insurance Committee held a meeting recently, Mr. J. A. Thomas (chairman) presiding. The Finance Sub-Committee recommended the payment of accounts amounting to £40,622 8s. 11d.; amongst that was the sum of £20,650 13s. 10d. for the medical year 1922-23. The accounts were passed. The Medical Benefit Sub-Committee reported that a chemist on the panel was recently convicted for unlawfully supplying heroin to an unauthorised person, and for attempting to conceal a stock of heroin from the police. The Committee are of opinion that the continuance of the chemist on the list of persons supplying drugs would be prejudicial to the efficiency of the pharmaceutical service, and recommended that a representation be made to this effect. The report of the Committee was adopted.

North-East Midland Pricing Bureau.—The reports and accounts for the year ended December 31, 1922, have just been issued. During 1922 the cost of pricing per 1,000 was £1 5s. 5½d. The estimate for 1923 is as follows: Net expenditure, £2,544; number of prescriptions, 2,257,000; cost per 1,000, £1 2s. 6½d. The following statistics were also given:—

	No. of prescriptions	Value
		£ s. d.
1922	2,266,156	77,090 5 10
1921	1,986,193	73,777 11 4
1920	1,979,568	76,897 19 7
1919	1,867,878	59,047 17 4
1918	1,979,545	56,959 14 11
1917	1,864,522	45,245 12 0

The number of prescriptions dispensed in 1922 in every area was greater than the corresponding figures for 1921. Sheffield showed the highest number with 507,514; Derbyshire was next with 408,069; Nottingham, 337,629. The three lowest areas were Lincoln (34,456), Grimsby (47,662), Barnsley (50,278). The average ingredient price per prescription was 3.2d., Derby highest (4.6d.) and Sheffield lowest (2.6d.). The average dispensing-fee was 4.9d., Rotherham lowest (4.7d.), and the following five areas highest: Halifax, Huddersfield, Lincoln, Lincs (Lindsey), Sheffield. The scrutiny of the Retail Pharmacists' Union each month showed an average percentage of error of 0.013. There were 1,578 prescriptions (value £170 12s.) dispensed by chemists in connection with the schemes of Local Authorities for the treatment of tuberculosis.

Nottinghamshire.—At the first meeting of the newly-elected Pharmaceutical Committee, the following officers were elected:—Chairman, Mr. A. H. Bell; Treasurer, Mr. B. Adams; Secretary, Mr. A. L. Milne; Pharmaceutical Service Sub-committee, Messrs. E. S. Waring, J. A. Pegg, G. W. Briggs.

Southampton.—The newly-elected Pharmaceutical Committee for the county of Hampshire met at Southampton on July 11. Mr. Gare (Lymington) was unanimously elected Chairman, Mr. Martin (Christchurch) Secretary and Treasurer, and Mr. Bilson (Bournemouth) and Mr. Baker (Cosham) and the chairman were elected as chemists' representatives on the Pharmaceutical Services Sub-Committee. The retiring chairman (Mr. Baker) was thanked for his services. Since the last meeting one addition to and one resignation from the Panel had been made. The report of the checking bureau for January was received. The secretary was instructed to write, in reply to a communication from the Insurance Committee, that the Pharmaceutical Committee, acting in concert with the Insurance Committee, would do everything in its power to maintain the standard of dispensing.

JUNE DRUG TARIFF

The following are the alterations for June in the Insurance Drug Tariff for England and Wales:—

Lower.—Acid. boric, cryst. B.P., 11½d. lb.; acid. boric, pulv. B.P., 1s. 0½d. lb.; acid. carbolic, B.P. (detached crystals), 2s. 8d. lb.; ammon. benz. B.P. (artificial), 7d. oz.; ammon. phosph. B.P., '98, 3s. 9d. lb.; collod. salicylic. B.P.C., 6½d. oz.; collod. salicylic. co. B.P.C., 8s. lb.; emuls. chloroform, B.P.C., 1s. 6d. lb.; ext. aloes pulv. B.P., 4s. 6d. lb.; ext. casc. sagr. sicc. B.P. 9½d. oz.; ext. hamamel. liq. B.P., 7s. 6d. lb.; inf. senegae ex conc. 4s. 2d. lb.; liq. formaldehyd. B.P., 1s. 7d. lb.; liq. morph. acet. B.P., 4s. 9d. lb.; liq. morph. hydroch. B.P., 4s. 6d. lb.; liq. picis carb. meth. 1s. 8d. lb.; mag. carb. pond. B.P., 1s. 4d. lb.; ol. caryoph. B.P., 12s. 6d. lb.; pasta zinci co. B.P.C., 1s. 7d. lb.; pot. sulph. B.P., 1s. 9d. lb.; sodii chlor. B.P., 10d. lb.; sodii salicylas B.P., cryst., 4s. lb.; spt. camph. B.P., 6s. 3d. lb.; succ. scorparii B.P., 2s. 10d. lb.; tr. cannab. Ind. B.P., 24s. lb.; tr. cinchon. co. B.P., 6s. lb.; ung. chrysarobin. B.P., 2s. 6d. lb.; ung. hyd. co. B.P., 4s. lb. Bandages, calico, bleached, B.P.C., 2½ in. by 4 yds., 3.1d.; 3 in. x 4 yds., 3.7d.; 2½ in. x 4 yds., 2.8d.; domette, B.P.C., 2½ in. x 6 yds., 11.6d.; 3 in. x 6 yds., 14.1d.; flannel, B.P.C., 3 in. x 6 yds., 20.1d.; open wove, grey, B.P.C., 1 in. x 3 yds., 7d.; 3 in. x 4 yds., 2.3d.; 6 in. x 6 yds., 6.5d.; open wove, white, B.P.C., 4 in. x 6 yds., 4.9d.; 6 in. x 6 yds., 7.3d.

Higher.—Aq. anisi ex conc., 14s. lb.; argent. proteinat. B.P.C., 1s. 8d. oz.; calx sulphurata B.P., 4d. oz.; glycer. acid. carbol. B.P., 2s. 4d. lb.; ol. eucalypt. B.P., 2s. 10d. lb.; ol. ricini, B.P., 1s. 2d. lb.; paraff. mol. flav. B.P., 10d. lb.; pot. bicarb. B.P., 1s. 1d. lb.; pot. tart. acid. B.P., 1s. 5d. lb.; santonin. B.P., 12s. 6d. dr. Gauze and cotton tissue B.P.C., 1 ozt., 2.3d., 4 oz., 7.3d., 8 oz., 13.5d., 1 lb., 25.0d.

SCOTLAND

Conference in Edinburgh

A conference of bodies interested in the medical service of the National Health Insurance Acts was held in Edinburgh recently, under the auspices of the Insurance Acts Sub-Committee (Scotland) of the British Medical Association. Dr. C. E. Douglas, Cupar, who presided, said there were certain points upon which they were in general agreement, as, for instance, that the Act should go on. Mr. J. Rutherford Hill, secretary of the Pharmaceutical Standing Committee (Scotland), introduced a discussion on the provision of drugs and appliances. They ought, he said, to refute the suggestion that because of expense medical treatment was withheld from insured persons. Referring to special treatment, he remarked that insulin might be said to be in the experimental stage, but if it proved to be really all that was claimed for it, it would become available for insured persons. Taken as a whole, they believed the Scottish system was about as nearly perfect as was practicable. Miss Dunbar, Edinburgh, said the idea had got abroad that doctors were not prescribing such good drugs for insured persons as for their private patients. Dr. Brackenbury held that the suggestion of differentiation of drug supply between the insured and the private patient was not true in fact. Dr. Miller, Hamilton, was of opinion that in every centre of population there should be established a clinical laboratory under the control of a whole-time clinical pathologist.

The Association of British Chemical Manufacturers

THE seventh annual general meeting of the Association was held at the Chemical Society's Rooms, Burlington House, Piccadilly, London, W.1, on July 12. Sir Max Maspratt, Bart. (Chairman), presided. The Chairman, in proposing that the report and the accounts be adopted, said : In spite of being chemical manufacturers, we have in recent years somewhat overcome the modesty of previous eras of chemical industry. We believe we have a duty to perform in instructing Ministers of the Crown and other members of the Government and the Civil Service as to what they ought to know about this industry. We have also to impress upon the nation that in Great Britain the chemical industry is a very important national asset, and it has got to go forward or go back. We intend to further the progress of this industry by getting the public and the Government to understand what it means and how it should be treated. The report, read in this light, gives much material, and I trust it will assist everyone to gauge in some way the work done and what we are still striving to do. Next year the British Empire Exhibition takes place, and, although we are not taking any part in the British Industries Fair of next year, in the British Empire Exhibition we are taking a very great part. We have sub-let 30,000 sq. ft.; and in a more permanent way, because the Exhibition lasts six months, we hope to send out the message we have been attempting to convey through the British Industries Fair. We intend the Chemical Section of the British Empire Exhibition to be a complete survey of Great Britain's services to chemistry from top to bottom, from the smallest chemical manufacturer to the most brilliant and epoch-making discovery by scientific men in chemistry.

THE RUHR OCCUPATION AND THE DYESTUFFS POSITION

With regard to the Continental situation, the whole position of the Ruhr is one which the chemical industry, especially the fine chemicals and the dyestuff branches, has to look upon with great apprehension. We have taken every step that we think humanly possible, and for the moment we have very reassuring messages. I should like to repeat the very timely warning which Mr. Woolcock gave to the dyers and colourists, that what had happened in the Ruhr was a reminder to the dye users of the unstable foundation upon which their supplies of dyes still rested; and that the Government of this country was free, at any rate, from one grave anxiety by the fact that the great textile industry could go on with the assistance of the British dye manufacturers, whatever happened on the Ruhr. With regard to the agitation for repeal of the Dyestuffs Act, is not the real trouble of the textile industry the high price of cotton and the great difficulties of marketing it in the Far East, and so on? It is our firm intention to have a strong and successful dye industry in this country which will be capable of supporting itself in a very short time against competition from any part of the world. On the subject of co-operation, which Sir William Alexander spoke a few days ago, the heavy chemical industry desires to assist and co-operate in every way. Co-operation has proceeded appreciably, but co-operation can be speeded up. Turning to the question of alcohol, we are indebted to Mr. Carr for the way in which he has handled this problem in conjunction with the Committee. After long negotiations further concessions have been made, which I understand Mr. Carr and the Committee are convinced are as far as any manufacturers can reasonably ask the Customs officials at the present time to go. He concluded by expressing appreciation of the work of the general manager, Mr. W. J. U. Woolcock, and his staff.

DISCUSSION

Mr. R. G. Perry, C.B.E., seconded the resolution. The Treasurer (Mr. C. A. Hill), in commenting on the accounts, said that these were a matter for congratulation to the administrative staff. If the Council could give a

satisfactory service and yet end up with a small balance, that was a result which was satisfactory. Mr. A. T. Smith said they should make a special note of the remarkable result which has followed their efforts as an Association to better the chemical trade. So far as the heavy chemical industry was concerned, there would be the same co-operation in the future with the dye industry as he has had in the past, and he hoped the results would be quite as good. Dr. E. A. Armstrong, F.R.S., said that the Association had certainly done well during the year, but it was desirable that chemical industry should not rely too much on Government patronage. Sir William Alexander, in addressing the shareholders of the British Dyestuffs Corporation, mentioned that a sum of £400,000 had been spent on research. The fact that it has been spent showed that one firm in this country (and that firm was typical of all the members of the Association), did realise the enormous importance of making itself strong on the scientific side as a preliminary to its success financially. Sir William Alexander, K.B.E., C.B., C.M.G., D.S.O., said his company had received from the heavy chemical industry real assistance in bringing down the prices of their products. He felt certain that their industry was going to pull through. He hoped that their industry would be of assistance to the other large industries which were embraced in the Association of British Chemical Manufacturers.

With regard to transport questions, the Rt. Hon. J. W. Wilson said he foresaw that during the next twelve months, and probably over a longer period, the lines were being set for a battle between shareholders of the railway companies and the traders. He thought that there was a danger in being too hasty to have great cases discussed and published. He hoped that they would pause before they joined issue and see whether they were not likely to get more by negotiations such as their Association had carried out, and he believed would continue to do. Mr. F. H. Carr, C.B.E., F.I.C., referred to the alcohol question. The importance of alcohol to the fine chemical industry had perhaps never been stated, and yet he thought that chemical manufacturers, and fine chemical manufacturers in particular, were coming to realise that it was a substance, as a chemical, which they could use, whereas hitherto it has always been regarded as a substance which was beyond their reach. It was the raw material, the coal tar, of the pharmaceutical chemical. They had in the concessions which they had given shown that we are at the dawn of a new era as regards the use of alcohol in chemical manufacture. The concessions which had been made permitted manufacturers who are commencing to use alcohol to use quantities up to 100 gallons without any restrictions as regards their receivers without the necessity of an officer being on the spot; and provided adequate figures were shown as regards the destination of the alcohol that was being used, they were quite satisfied to leave it with fairly moderate restrictions.

Dr. H. Levinstein, M.Sc., referred to the Council having been asked to organise the Chemical Section of the 1924 Exhibition. That was a remarkable testimony to the Association.

VALUE OF PUBLICITY

Mr. T. D. Morson said he hoped that publicity would remain in the forefront of the policy of the Association. Individual firms can undoubtedly do a lot by advertising, but the propaganda work of the chemical industry as a whole must obviously be carried on by the Association. Publicity about themselves was, of course, good, but information about their foreign competitors was probably even better, and the statistics especially with regard to the other fellow were most useful. The report and accounts were unanimously adopted. The auditors (Messrs. Feasey & Co.) were reappointed, and the report of the scrutineers was received and adopted. A special general meeting followed, when the amount of the annual subscription payable by members of the Association for the year 1923-1924 was fixed at four-fifths of the sums laid down in Article 17 of the Articles of Association.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in packing and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42, Cannon Street, E.C.4, July 19.

BUSINESS is usually quiet at this period of the year, but the dullness is accentuated this week on account of the dock strike, which prevents the inward and outward flow of goods. Many export shipments are being held up at the docks, and buyers hesitate to place orders in view of the uncertainty of delivery. A drug auction is due to be held next Thursday and will take place as usual, as delivery can be obtained from the Cutler Street warehouses of the Port of London Authority, where the bulk of the crude drugs is stored. There are few changes in values in drugs. New crop opium is expected to turn out a full average crop and prices should be easier later. Cascara sagrada remains quite firm and is again higher in America; senega, on the other hand, comes easier. Balsam tolu is still rising. Refined camphor is steadier, but quoted unaltered. New crop cumin seed is easier to arrive. Menthol keeps firm, with small sales to consumers. Lime juice continues in good demand, and isinglass was dearer at auction. Among pharmaceutical chemicals business continues quite restricted, and a number of products have moved in favour of buyers, including the bromide salts, salicylates, phenacetin, and phenazone. Phenolphthalein is scarce and dearer, and higher prices are asked for benzonaphthol. The latest developments in regard to santonin are referred to on p. 105.

Higher	Firmer	Easier	Lower
Balsam tolu	Calcium lactate	Ammonia, anhydrous	Acid oils
Benzonaphthol	Camphor (Jp., ref.)	Bromides	Cajuput oil
Cloves (Zan.) (c.i.f.)	Cinnamom leaf oil (Cey.)	Cassia oil	Coconut (desic.)
Isinglass	Cloves (Zan.)	Citronella oil (Jv.)	Cottonseed oil
Otto of rose (new crop, Bulg.)	Eucalyptus oil	Cumin seed (c.i.f.)	Mint oil (Jp.)
Rubber	Geranium oil	Hexamine	Palm kernel oil
	Palmarosa oil	Lithopone	Peppermint oil (American)
	Phenolphthalein	Methyl	Wood oil (Ch.)
	Pitch	salicylate	
	Sodium acetate	Palm oil	
	Sodium diethyl-barb.	Phenacetin	
		Phenazone	
		Potash carbonate	
		Salicylic acid	
		Sodium	
		salicylate	
		Sodium sulphide	

A drug auction will be held next Thursday, July 26.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	July 11	July 18
Amsterdam	Fl. to £	12.107	11.73—11.73	11.70—11.70
Berlin	M to £	20.43	950,000—1,000,000	1,250—1,300,000
Brussels	Fr. to £	25.22½	92.40—92.50	95.00—95.10
Calcutta	Per rup.	24d.	16½d.—16½d.	16½d.—16½d.
Constantinople	Pst. to £	110	690—710	690—710
Greece	Dr. to £	25.22½	150—160	168—175
Italy	Lire to £	25.22½	105—105	106—106
Lisbon	Escu.	53½d.	2½d.—2½d.	2½d.—2½d.
Madrid	Pts. to £	25.22½	31.65—31.68	32.17—32.20
Montreal	\$ to £	4.86½	4.70—4.71½	4.71½—4.72
New York	\$ to £	4.86½	4.58—4.58½	4.59—4.59½
Paris	Fr. to £	25.22½	77.00—77.10	78.25—78.35
Singapore	Per dol.	—	27½d.—28½d.	27½d.—27½d.
Switzerland	Fr. to £	25.22½	26.23—26.27	26.27—26.30
Vienna	Kr. to £	24.02	315,000—325,000	315,000—325,000
Yokohama	Per yen	24.58d.	25½d.—25½d.	25½d.—25½d.

Cablegram

NEW YORK, July 17.—Business is quiet. Mexican sarsaparilla has advanced to 31c. per lb., and cascara sagrada to 15c. Balsam tolu is also dearer at \$1.30. Senega has declined to 60c., Oregon balsam of fir to \$1.30 per U.S. gallon, and formaldehyde to 14½c. per lb.

Crude Drugs, etc.

ALBUMEN.—Prime Chinese egg is quoted at 3s. 4d. per lb. on the spot, and for July-August shipment 3s. 3½d. per lb. has been paid.

AMMONIACUM.—Good pale almond drop can be had at 2s. 3d., and partly blocky at 1s. 10d. per lb.

ANTIMONY.—The demand continues slack, but English refined is still £34 10s. to £35 per ton for special brands; foreign regulus is easy, spot lots being quoted £25 10s.; there is no interest at present for shipment, buyers' views being well under the terms wanted at £23.

ARECA.—Forward sales have been made at 3ls. 6d. per cwt. c.i.f.

BALSAMS.—Tolu continues to advance in the U.S.A., and 5s. 7½d. per lb. c.i.f. is quoted to arrive; spot supplies are almost exhausted, with the exception of a case or two in dealers' hands. Peru is firm at about 7s. per lb. for B.P. on the spot. Copaiba is 1s. 7d.; Oregon balsam of fir, 1s. 6d.; and Canada balsam about 7s. 6d. per lb.

BISMUTH.—A steady demand is reported for metal and the current supply is regularly absorbed, the "ring" quotation remaining at 10s. per lb.

BUCHU.—The exports from the Union of South Africa during March amounted to 30,005 lb. (£3,632), against 19,432 (£2,523) in March 1922. During the three months ended March 31 the exports amounted to 84,505 lb. (£10,903) against 30,438 lb. (£4,001) for the corresponding period of 1922.

CAMPHOR (REFINED).—There is a slightly better feeling in Japanese slabs on the spot, although there is no quotable change at 3s. 6d. per lb.; but they are not freely offered at this price. To arrive, sales have been made at 3s. 5½d. c.i.f. Crude is unaltered at 3s. on the spot, and for July-August shipment 2s. 9d., c.i.f., is quoted.

The exports from Japan during April amounted to 2,964 piculs, valued at 649,274 yen. During the four months ended April 30 they were as follows:—

To	1921 Piculs	1922 Piculs	1923 Piculs
British India ..	430	426	4,187
Great Britain ..	248	1,082	732
France ..	..	3	1,439
Germany ..	75	444	2,370
United States ..	665	5,014	6,745
Australia ..	158	287	185
Other Countries ..	178	255	1,425
Piculs ..	1,757	8,354	17,083
Yen ..	388,103	1,702,042	3,461,647

CANTHARIDES.—A new parcel of Chinese of good quality is quoted at 4s. 10½d. per lb., and for Russian 6s. 6d. per lb. is asked.

CARDAMOMS.—At auction on July 12, 132 packages new import Ceylon Mysore offered, of which 18 only sold at steady rates, comprising good bold bleached at 5s. 6d., bold part specky 4s. 9d., bold medium 3s. 10d., and fair small 3s. 6d.; brown shells 4d. per lb.

CASCARA SAGRADA remains firm at from 80s. to 82s. 6d. per cwt., the latter for small lots of three-year-old bark, free delivered, London.

CLOVES.—Zanzibar are firmer, with spot sales of fair at 1s. 1½d. to 1s. 2d. To arrive, August-October shipment has been sold at 1s. 1½d. to 1s. 2½d. c.i.f. The weekly wharf statistics show landings nil and deliveries 549, leaving a stock of 15,215 bales against 4,742 bales last year.

COCONUT (DESICCATED) is lower, fine Ceylon selling on the spot at 38s. and medium at 38s. per cwt. To arrive, June-July shipment has been sold at 35s. 9d. c.i.f., and July-August at 36s. c.i.f.

COD LIVER OIL is unchanged at from 105s. to 110s. per barrel, c.i.f. London, for finest non-freezing steam-refined quality, and ex-wharf London 110s. is quoted.

CUMIN SEED is slightly easier, Morocco offering at 125s. per cwt. c.i.f., and Maltese at 115s. c.i.f., for prompt shipment.

ERGOT has been in fair demand and sound parcels of Spanish or Portuguese are firm at from 1s. 11d. to 2s. per lb. More or less wormy parcels, which constitute the bulk of the stock, are offered at 1s. 9d. per lb.

GUM ACACIA.—Kordofan sorts offer on the spot at from 65s. to 70s. per cwt., and cleaned at 70s.

HONEY.—With plentiful stocks there should be a good selection on offer at auction next week. Good to fine pale amber Jamaican can be had at from 50s. to 60s. per cwt., brown to pale amber at from 37s. 6d. to 45s., and manufacturing qualities at from 34s. to 36s. per cwt.

IPECACUANHA.—Stocks still continue limited and prices are firm, Matto Grosso offering at from 7s. 3d. to 7s. 6d. per lb.

ISINGLASS.—At auction the small supply of 446 packages offered, and with a good demand practically all sold at higher rates.

LIME JUICE.—West Indian raw is firm and prices are steady at from 2s. 6d. to 2s. 9d. per gallon.

MENTHOL.—There is practically no change on the week, and the spot market is called firm but quiet at 38s. 6d. per lb. for Kobayashi-Suzuki. July-August shipment is quoted at 38s. c.i.f.

The exports from Japan during April amounted to 210 piculs, valued at 422,994 yen. During the four months ended April 30 they were as follows:—

To	1921 Piculs	1922 Piculs	1923 Piculs
British India ...	... 52	72	31
Great Britain ...	... 211	164	72
France ...	... 5	9	30
Germany ...	... 0	21	40
United States ...	... 557	232	609
Other Countries ...	... 60	37	51
Piculs	885	585	833
Yen ...	... 821,492	619,563	1,564,889

MERCURY.—The appearance of the market is much the same as it was a week ago, although prices in the interim have fluctuated somewhat. There seems, too, a fair supply available in dealers' hands and competition for orders is rather keen while trade is slow. Export business with Eastern centres is dormant and home buyers only take small lots. Quotations range from about £10 5s. to £10 10s. per bottle. The June imports were 2,012 bottles, making a total of 23,884 bottles for six months against 6,128 bottles for same period in 1922.

OLIBANUM.—Pale drop is offered at from 95s. to 100s., reddish at from 77s. 6d. to 80s., good garblings at 50s. to 55s., and siftings at 62s. 6d. to 65s. per cwt.

OPIUM.—The primary markets are now between the old and new crop period, and buyers are awaiting the advent of the latter, which is delayed in coming forward from the interior. It is approximately estimated at 5,000 cases, and if this should prove to be correct, prices should be easier. It is not anticipated that the yield of morphine will be over 11 per cent. Telegrams from Constantinople this week quote 11½ per cent. at 14s. 6d. per lb. c.i.f., with buyers holding off. The London spot value at the moment is somewhat nominal at from 15s. to 16s. per lb.

CONSTANTINOPLE, July 10.—"During the period June 26 to date, arrivals consisted of only 22 cases of druggists', and the stock amounted to: Druggists' 127: 'softs,' 65; Malatia, 6 cases. During the past fortnight 74 cases of druggists' were sold at 1,400 to 1,525 piastres, and 15 cases of 'softs' at 1,500 to 1,700 piastres, per oke. These prices were paid, firstly, because certain firms were compelled to purchase in order to complete deliveries, and secondly, because the value of the pound sterling dropped from 73s to 700 piastres. Twenty-two cases of the new crop have arrived, and we regret to find that the morphine content is lower than that of the preceding crop. We are informed that in the interior opium is changing hands at high prices, since some dealers assume that the crop will amount to 3,000 cases. Other experts, on the other hand, believe that it will yield not less

than 4,000 to 4,500 cases, a view which we also share. At present there is not a single buyer in the local market. Should present conditions last until the end of the month, a very favourable situation will result, since it will be possible to make purchases in the interior without any disturbing factors, and the local market will profit. A few parcels have arrived in Smyrna, where 7 cases were sold at 1,200 to 1,275 piastres per oke to a speculator who is in the habit of sending his purchases to Constantinople, and we trust he will do the same on this occasion."

QUASSIA.—The "Teviot," from Jamaica, has brought 61 tons of logs. Small lots of chips on the spot have been sold at 56s. per cwt.

RUBBER is again dearer, and 4d. per lb. better on the week. The demand on the spot has not been too active, but there is a decidedly better feeling all round. America is gradually creeping towards the London parity, and although there is practically no buying from New York, feelers are being put out from that quarter for large quantities for distant deliveries. The statistical position on this market improves every week, but special stress must not be laid on this factor at the moment, as the dock strike is upsetting both landings and deliveries. Last week arrivals totalled only 69 tons, whilst deliveries amounted to 428 tons, showing a further decrease of 359 tons in the stocks. The London stock now stands at 49,976 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard crêpe and ribbed smoked sheet, spot and July, 1s. 2½d.; August, 1s. 2½d.; September, 1s. 2½d.; October-December, 1s. 2½d.; January-March, 1s. 3½d. Balata continues to improve, and higher price of both sheet and block may shortly be expected.

SARAPARILLA.—The "Teviot," from Jamaica, has brought 23 bales native. The drug has been selling rather more freely. Genuine grey Jamaica is quoted at 3s. per lb., good red native Jamaica 1s. 9d. to 1s. 10d., mixed red and yellow 1s. 8d. Honduras roll 3s. 3d., and Mexican 1s. 9d. per lb.

SENEGA.—Our New York cable reports a decline to 60c. per lb. London spot values are from 3s. 1d. to 3s. 2d. per lb., and new crop to come forward is offered at 2s. 9d. per lb. c.i.f.

SENNA.—The London stock of senna is about 1,800 bales, of which little is of good quality. Bold green Tinnevelly leaf has been selling, at from 6d. to 6½d. per lb., and common to medium grades at from 3d. to 3½d. Good pale Tinnevelly pods are scarce, only dark offering. Alexandrian have consequently been in demand and a good quantity has been sold at from 4d. to 4½d. per lb., at which further supplies of low grades are offered.

SHELLAC.—The trade demand on the spot is confined to limited dimensions, and although arrivals of late have not been quite so heavy, parcels continue to go into stock. There was a good recovery in the latter part of last week in forward positions on re-purchases, but this did not much affect the value for spot delivery, which is from 260s. to 265s. per cwt. for usual standard TN orange; good to fine second orange is 280s. to 290s., superfine 300s. to 320s., A.C. cakey 280s., and G.A.L. 250s. The sales for delivery include August at from 245s. to 247s. 6d., and October at from 235s. to 250s.

STARCK PRODUCTS.—Dutch farina is dull at 14s. 9d. per cwt. on the spot, and for July-August shipment 14s. f.o.b. Rice starch crystals offer at 40s. for English and 34s. for Continental. Superior Dutch dextrin is 23s., and No. 2 20s. Maize starch powder is offered at 15s. 1½d. per cwt.

WAX (BEE) has been in better demand of late. East African can be had at from £4 17s. 6d. to £5 2s. 6d. per cwt., as to quality.

WAX (VEGETABLE).—Japanese is slow of sale at 75s. on the spot, and July-August shipment is also 75s. c.i.f. Fatty grey Carnauba is offered at 95s. to 97s. 6d., and chalky at 90s. to 92s. 6d. per cwt.

The exports of vegetable wax from Japan during April amounted to 1,793 piculs, valued at 74,671 yen. During the four months ended April 30 they were as follows:—

	1921 Piculs	1922 Piculs	1923 Piculs
Yen ..	.. 5,300	17,561	8,478
Yen ..	.. 191,757	691,239	350,903

Essential Oils

BUSINESS is quiet generally, but there is a fair number of price changes. Otto of rose is dearer at the source. Ceylon cinnamon leaf has been in fair demand. Eucalyptus is steadily advancing. Geranium and palmarosa are firmer. Among the easier oils are star anise, cajuput, Java citronella, American peppermint, cassia and Japanese mint.

The following are the quantities and values of the essential oils (other than turpentine) imported into and re-exported from Great Britain for June 1923, compared with the same month in 1921 and in 1922, also for the six months ended June 30, 1921-1923 :-

	1921.	1922.	1923.
June imports other than turpentine ..	lb. 91,482	261,234	242,977
Jan.-June imports do.	value £24,335	£60,270	£60,847
June re-exports do.	lb. 820,574	1,506,972	1,907,199
	value £235,813	£402,574	£479,056
Jan.-June re-exports do.	lb. 51,453	64,361	79,288
	value £16,089	£21,667	£32,284
value £135,154	£187,610	£202,983	

ANISE (STAR).—Spot business is reported at 1s. 9½d. per lb. for a line. There are sellers at 1s. 8½d. c.i.f. for shipment, which is easier.

BERGAMOT is unchanged from last week, with 38 to 40 per cent. l.a. quoted at 12s. to 12s. 6d. per lb. on the spot, and for shipment 11s. 9d. to 12s. 3d. c.i.f.

CAJUPUT on the spot is quiet and easier at 3s. 3d. to 3s. 6d. per lb.

CASSIA on the spot is nominal at 12s. per lb. for 80 to 85 c.a., but 11s. 9d. would buy. Shipment afloat has been offered at 10s. c.i.f.

CINNAMON.—Ceylon leaf has been in better demand and is firm at 4½d. per oz. For shipment, 3½d. c.i.f. has been paid, and 3½d. is now asked.

CITRONELLA.—Ceylon on the spot is steady at 3s. 6d. per lb. and 3s. 3d. c.i.f. for shipment afloat. Java is steady at 4s. 2d., and the forward quotation is easier at 4s. to 4s. 1d. c.i.f.

CUBEB is quoted on the spot at 26s. per lb.

EUCALYPTUS is very firm, and further advances are generally expected. For 80 to 85 per cent. oil in cases 1s. 10½d. per lb. is quoted, but in some quarters more than this is wanted. Further business in 70-75 per cent. October delivery has been done at 1s. 8½d. c.i.f., and probably 1s. 9d. would now have to be paid. Genuine *E. citriodora* is quoted at from 9s. to 10s. per lb. *E. amygdalina* is 1s. 2d.

GERANIUM.—Bourbon is again firmer at 29s. to 30s. per lb. as to seller. Higher prices for shipment are quoted at from 245 fr. to 250 fr. per kilo c.i.f. Shipments of Algerian are held up at the London docks by the strike, but spot quotations range from 28s. 6d. upwards. At Grasse 350 fr. per kilo is quoted for French geranium, and spot sales could be made on this basis (=40s. per lb.).

GINGERGRASS on the spot is quoted at 7s. 6d. per lb. for the "insoluble."

LEMON.—Good quality oil is quoted on the spot at 2s. 9d. to 2s. 11d. per lb. The price for shipment is 2s. 7d. to 2s. 10d. c.i.f. There has been better inquiry.

LEMONGRASS.—Cochin is nominal at 2½d. per oz. on the spot. The price quoted for shipment is 2½d. c.i.f.

LIME.—West Indian is quiet and unchanged at from 3s. 7½d. to 3s. 9d. per lb. on the spot for distilled, and 7s. to 7s. 6d. for hand-pressed.

MINT.—Japanese dementhrolised Kobayashi-Suzuki is steady at 7s. per lb.; business has been done at 5s. 11d. c.i.f.

The exports from Japan during April amounted to 168 piculs, valued at 80,890 yen. During the four months ended April 30 they were as follows:-

	1921	1922	1923
Piculs	664	387	894
Yen	174,047	110,098	383,267

ORANGE.—Sicilian sweet is steady at from 13s. 6d. to 14s. per lb. on the spot.

OTTO OF ROSE.—The independent efforts of Bulgarian producers of otto to arrive at prices for new crop oil have succeeded only in causing chaos on the market.

It is, however, apparent that values have considerably increased from what was at first anticipated. In some directions 40s. per oz. and considerably over is quoted, but on the other hand London agents of a well-known Bulgarian house quote 35s. per oz. and less on contracts. Both in this country and in France there are said to be fair stocks of otto of doubtful quality held over for some years, and probably much of this material will now go into consumption at relatively good prices.

PALMAROSA is firmer at 19s. 6d. per lb. on the spot.

PATCHOULI.—Usual Penang quality is quoted at 27s. per lb., up to 29s. 6d. is wanted.

PEPPERMINT.—American natural is quiet and a shade easier at 12s. 3d. per lb., on the spot.

PETITGRAIN.—Paraguayan is quoted for shipment at 6s. 10½d. per lb. c.i.f., but on the spot holders are quoting 7s. to 7s. 3d.; and for a quantity these prices may be shaded.

ROSEMARY.—French on the spot is quoted at 2s. 6d. to 2s. 7d. per lb.

SASSAFRAS.—American natural oil is steady on the spot at from 5s. 3d. to 5s. 6d. per lb. as to seller.

SPIKE.—French is quoted at 4s. 6d. per lb.

Pharmaceutical Chemicals, etc.

A CONTINUANCE of poor business is reported in all directions. Prices, which had been standing up well for some time, are returned at easier rates in a number of instances. Although it is difficult to see how spot prices can move any further in buyers' favour, the outlook as far as business is concerned is not at all promising. Bromides, salicylates, phenacetin, and phenazone are easier. Phenolphthalein is scarce and dearer.

ACETANILIDE appears to be irregular and rather weak, with offers varying from about 1s. 5d. to 1s. 7d. per lb.

AMIDOPYRIN continues to be quoted in the region of 14s. per lb., but there is seldom any inquiry.

ASPIRIN.—In some quarters as low as 3s. per lb. is being mentioned for good quantities this week; the demand has been much smaller of late.

BARBITONE keeps well up to the recent quoted rate of 21s. per lb., with business dull.

BENZOIC ACID is now offering at about 2s. 3d. per lb.; nothing doing.

BETANAPHTHOL (re-sublimed) is unchanged at 1s. 10d. per lb.; benzaldehyde .03 continues to be offered on a slack market at 3s. per lb.; benzonaphthol is quoted at the dearer rate of 5s. 6d. per lb.

BROMIDES.—At a time when business is lacking in a marked degree there seems to be a very plentiful supply offering; consequently prices are on the easy side, and again this week a further move in buyers' favour is recorded. Some large parcels are said to be available at very cut rates. Ammonium, 7d. to 7½d. per lb.; potassium, crystals and granular, 7d. to 7½d. per lb.; sodium, crystals and granular, 7d. to 7½d. per lb., all B.P.

CALCIUM LACTATE seems to be somewhat firmer, and some holders are asking up to 1s. 11d. to 2s. per lb. for small lots.

CHLORAL HYDRATE keeps very steady, and the quoted rate of 4s. per lb. for duty-paid is well maintained.

CITRIC ACID B.P.—The more seasonable weather experienced recently does not seem to have improved the demand to the extent expected—quoted rates for spot material appear to vary from 1s. 8d. to 1s. 9d. per lb.

CREOSOTE B.P. continues to be quoted at about 2s. 2d. per lb. on a quiet market.

CREOSOTE CARBONATE is mentioned at the slightly higher level of 8s. 6d. to 9s. per lb., with very little buying taking place.

GUAIACOL CARBONATE remains almost lifeless, and is unchanged at about 8s. 3d. per lb.

HEXAMINE is an easier market this week, and spot holders in some quarters are offering down to 3s. 10d. for good quantities and 4s. for small lots.

HYDROQUINONE has been moderately active, with quoted rates at 3s. 6d. to 3s. 9d. per lb.

METHYL SALICYLATE has moved a shade in buyers' favour with quotations from 2s. 4d. to 2s. 6d. per lb.; market quiet.

METHYL SULPHONAL is nominal on a neglected market at 15s. per lb.

PARAFORMALDEHYDE seems to be slightly firmer, with most dealers asking 3s. 9d. to 4s. per lb.

PARALDEHYDE remains at last week's cheaper rate of about 1s. 5d. per lb., with little business about.

PHENACETIN has slackened off in demand, and offers are on the market at 6s. to 6s. 3d. per lb. this week.

PHENAZONE has moved a point in buyers' favour, with the cheaper prices of 7s. to 7s. 3d. now being mentioned.

PHENOLPHTHALEIN has moved to very high rates and the market seems quite firm. The few offers about specify 6s. 6d. to 6s. 9d. per lb.

POTASSIUM PERMANGANATE B.P. is a good market, with dealers quoting steadily from 10d. to 11d. per lb. according to quantity.

RESORCIN is fully maintained at 5s. 6d. to 5s. 9d. per lb., although there is not much business about.

SALICYLIC ACID B.P.—Most dealers are quoting at slightly easier rates this week. The market seems fairly steady, but business is not good; 2s. 1d. to 2s. 3d. per lb.

SANTONIN.—The latest developments in regard to the position of supplies is given on page 105.

SODIUM BENZOATE is quoted on a stagnant market at the nominal rate of 2s. 6d. per lb.

SODIUM DIETHYLBARBITURATE is now quoted at the dearer price of 21s. per lb. in one quarter and 18s. 6d. in others.

SODIUM SALICYLATE.—Good holders are offering at easier prices this week, and at these new levels the market seems steady but is not active. B.P. powder, 2s. 4d. to 2s. 7d. per lb.; crystals, 2s. 8d. to 2s. 10d. per lb.; phys. pure flake, 2s. 10d. to 3s. per lb. according to quantity.

SULPHONAL is quoted unchanged on a flat market at 14s. per lb.

TARTARIC ACID has been fairly active during the past week, and some dealers are now said to be offering at the cheaper level of 1s. 2½d. to 1s. 3d. per lb. The higher rate is about the general offer.

TERPIN HYDRATE remains dull and unchanged at 1s. 9d. per lb.

THYMOL continues to be offered at about 15s. per lb., with little doing.

VANILLIN is fairly steady from 23s. 3d. to 23s. 6d. per lb. for 100 per cent.

Industrial Chemicals, etc.

London, July 18.

THERE has, so far, been no sign of the slightest improvement in business in this market, and one cannot logically expect any change for the better until matters are settled in Europe. Daily the possibility of doing any export business with the Continent grows less and less. The demand on home trade account continues as flat as ever.

ACETIC ACID stands firm, as supplies are very restricted on spot and imports are interrupted from the Continent. 80 per cent. technical, about £47 to £48; 80 per cent. pure, about £50; 98 per cent. glacial, £60 to £63, in casks and £75 in demijohns, ex wharf, London.

ACETONE holds firm as quoted in the region of £120 per ton. Here, again, Continental supplies are interrupted.

ALUM finds but little business, with dealers offering lump, in casks, from the Continent at £10 10s. per ton.

AMMONIA (ANHYDROUS) has been gradually dropping off in demand and the price seems rather easy as mentioned at 1s. 5d. per lb. for 99.95 per cent.

ARSENIC.—The tendency is very irregular while the supply of prompt parcels is in narrow compass with sellers of white Cornish quoting between £70 and £72. There has been some talk of the possibility of more important shipments to this country from abroad, and although there has been lately little or no forward business reported to test the market, the tendency in that direction is certainly weaker. The American position has been apparently influenced by reports of an increase of production in Mexico, while it is claimed that American arsenic has been offered on this side.

BLEACHING POWDER (35 to 37 per cent.) remains dull so far as dealers are concerned, who are offering Continental at near £10 per ton.

COPPER SULPHATE.—Offers f.o.b. Continent are being received at about £25 per ton, but these figures seem of little interest and an easier level may shortly come along.

CREAM OF TARTAR keeps fairly active, with no difficulty met with in the matter of price at about 90s. to 92s. 6d. per cwt. for B.P.

EPSOM SALTS remain sluggish, with plentiful offers of commercial quality at about £5 per ton, in bags.

FORMALDEHYDE remains idle, with the price nominal at £96 per ton. Neither buyers nor sellers are making any movement until the Referee's decision on the recent appeal case is published. This may be expected any day now.

LEAD ACETATE has slackened off in demand, but there has been a little inquiry with the quoted rates £42 for brown and £43 for white crystals.

LITHOPONE is a shade cheaper, with dealers offering Continental 30 per cent. red seal at about £22 per ton, London. Business has been rather quieter.

LITHARGE.—Dealers are offering Continental material at about £36 per ton.

POTASH CAUSTIC.—There has been some inquiry for the small lots offering on spot in the region of £32 per ton for 88 to 92 per cent. solid, in drums.

POTASSIUM CARBONATE shows a slight weakening after a quiet week; 90 to 92 per cent. is worth about £28 and 95 to 98 per cent. about £32 per ton.

POTASSIUM CHLORATE continues to be offered at about 3d. per lb., with only little business passing.

POTASSIUM PERMANGANATE.—The lower prices quoted recently have brought about a fair business and prices now seem steady at about 9½d. to 10d. per lb., for commercial quality.

POTASSIUM PRUSSIATE.—Business is being keenly competed for and some offers for fair quantities might shade the quoted rate of 1s. 3d. per lb.

SALTCAKE keeps steady at unchanged prices. Home trade, about £4 15s. per ton; export, about £5 10s., f.o.b.

SODA CAUSTIC.—Dealers, whose prices declined £1 a ton last week, are quoting unchanged, but business is still lacking. 70 to 72 per cent., £18 10s.; 76 to 77 per cent., £20 10s. per ton, ex wharf, shipping port. British makers quote at unchanged rates for home trade only at £19 to £21 10s. per ton, in drums, carriage paid to destination. Makers' prices for export vary as to destination.

SODIUM ACETATE is perhaps a little firmer and most quotations are up to £25 10s. per ton.

SODIUM BICARBONATE from British makers is very steady at £10 10s. per ton, in bags, carriage paid to destination, for home trade only.

SODIUM CHLORATE remains dull and quoted at about 2½d. per lb.

SODIUM HYPOSULPHITE has met with a fair demand and most of the sales have been at cheaper rates than those quoted. Pea crystals, in 1-cwt. kegs, about £15 to £15 10s. per ton; commercial quality, in casks, about £10 per ton.

SODIUM PRUSSIATE has shown very little life and the price is weak at about 7d. per lb.

SODIUM SULPHIDE.—Dealers are now offering 60 to 62 per cent. solid down to £14 per ton, in drums, and broken at about £15 per ton, with very little doing; 60 to 65 per cent. concentrated, £15 per ton, in casks.

ZINC PRODUCTS.—There seems to be a little more steadiness about zinc products generally since the price of raw zinc looks like becoming stabilised by firmer reports from America, where restrictions on production are being enforced as prices recently fell to a rather unremunerative level. The output of ore has been already cut down a good deal. At the recent reduction for zinc oxide there is a fair outlet at prices ranging from about £38 to £48, according to quality, and higher figures are wanted by some makers of B.P. Zinc dust stands at £40 to £45 per ton.

COAL-TAR PRODUCTS, ETC.—Business continues most disappointing in the majority of items. Prices, however, keep up fairly well, but the market is far from steady in many directions. Pitch has improved a little again this week. ANILINE OIL and SALT have been inquired for on a little better scale, with the quoted prices from 9½d. to 10d. per lb., packages free. BETANAPHTHOL remains dull, with no change in the price asked—about 1s. 1d. per lb. Pitch,

on spot in London, shows a further slight advance at the quoted rate of 13s. per ton and the market seems very healthy. The forward positions are good as quoted at 147s. 6d. to 150s. per ton. Pure METHYL ALCOHOL continues to be offered firmly in the region of £100 per ton, ex wharf, London. CARBOLIC ACID crystals are available with little demand being felt. Prices vary from 1s. 2d. per lb. up to about 1s. 5d. per lb. CREOSOTE OIL is well held at 10d. per gallon, naked, f.o.b. At this level the market seems steady. CRESYLIC ACID remains quiet and prices for the various qualities vary from 1s. 10d. to 2s. 2d. per gallon. PYRIDINE is nominal at about 18s. per gallon. Inquiry has been difficult to meet on account of the acute shortage of supplies. HEXAMETHYLENE has met with occasional demand and is quoted well up to the former rates of 4s. to 4s. 3d. per gallon. DISINFECTANTS stand at 3s. 9d. per gallon, barrels free. NAPHTHALENE has shown no improvement in business and the price of £20 per ton is inclined to be weak. Crude, £7 to £13; crystals, £21; powder, £17; balls, £24; tablets, £28; candles, £28 per ton, packages free.

Fixed Oils, etc.

THROUGHOUT this market business during the past week has been very poor indeed. This unsatisfactory state of affairs is almost entirely due to the unsettled conditions on the Continent and to the further depreciations in the exchanges. ACID OILS.—Quoted rates show a further fall on the week—there is not much moving; coconut and palm kernel, 37s. 9d.; groundnut, 37s.; soya, 35s., all spot. CASTOR OIL.—Ex mill, Hull, prices are unchanged, with business very dull; pharmaceutical, 61s.; first pressings, 56s.; second pressings, 55s.; spot, in not less than one-ton lots in barrels. COCONUT OIL.—This market has been lifeless and prices as quoted are nominal; deodorised, 50s. 6d., spot; Ceylon, spot, about 48s.; Cochin, spot, about 50s. CORRONG-SEED OIL.—Most grades show a further fall in value, with the market exceedingly flat; deodorised, 48s.; common edible, 46s.; soapmaking, 42s.; crude, 38s. 6d., all spot. GROUNDNUT OIL.—This market has been dull, and quoted rates are easy; deodorised, 52s.; crude, 44s., spot. LINSEED OIL (raw, naked).—There has been no great volume of business passing of late, and towards the close things were rather quiet. Nevertheless, the market had quite a healthy tone and prices were well maintained as quoted: On spot, 44s.; July to August, 41s. 9d.; September to December, 38s. 7d.; Hull, on spot, 40s. 10d.; July to August, 40s. 3d.; September to December, 38s. 4d.; boiled linseed oil, about 46s. PALM-KERNEL OIL.—Quoted rates have fallen during a week of very slow business; deodorised, 46s.; crude, about 41s., spot. PALM OIL.—There has been a slight decline in values of some qualities, and business during the whole of the week has been on a very small scale. At the close the market seemed quite steady; Lagos, 35s. 6d.; softs, 34s. 3d.; mediums, 35s.; hards, 35s.; bleached, 37s., all spot. RAPE OIL.—Deodorised is quoted at about 44s. 6d. on a flat market, with crude at about 41s. 6d., all spot. SOYA BEAN.—Prices show little change on the week—business has been very slow; deodorised, 44s.; crude, 40s. 6d. TURPENTINE (AMERICAN).—Business has been very limited and prices for spot show a further slight movement towards the cheaper rates quoted forward; on spot, 79s.; July to December, 71s. 6d.; and September to December, 70s. There was a further reduction in the warehouse stocks last week to 2,686 barrels of American spirit, and 44 barrels of French were left. We understand that there are now some 8,000 barrels in the river, the discharge of which has been delayed by the dock strike, but some part thereof should be rendered available this week. WOOD OIL.—Hankow in barrels is quoted at about 106s. per cwt. nominally, on the spot.

Zanzibar Cloves

DURING 1922 the exports from Zanzibar amounted to 186,624 cwt., valued at Rs. 1,14,64,056, compared with 167,296 cwt., valued at Rs. 1,14,83,330 in 1921. The exportation varies considerably from year to year, but the fluctuations are much less pronounced than are produced by the variations in the volume of the crop, showing that in years of plenty large quantities are held over for subsequent exportation when the market has recovered from a temporary glut. The present season (July, 1922, to June, 1923) will in all probability produce a "record" crop. The arrivals in Zanzibar for the six months to December 31, 1922, amounted to 159,635 cwt., of which 146,387 cwt. was exported. The quantity of cloves exported during the ten years ended 1922 amounted to 82,113 tons, being an increase of 16 per cent. over the preceding decade.

Japanese Camphor and Sulphur

As the busy season approaches (writes our Japanese correspondent on June 10) there are some sales of camphor, but the business is too small to cause any improvement in quotation. Camphor crystals are quoted at yen 200 and camphor powder at yen 220. As the celluloid manufacturing industry is depressed, no large transactions can be hoped for at present. The quotation for Japanese sulphur has declined lately from yen 72 or yen 73 to about yen 70. Previously there had been a sharp rise in consequence of activity among paper manufacturers after the removal of the limitation on output of paper. Sulphur producers then increased their operations, but the demand from the paper mills has not been maintained at the same high level; hence the slight decline in the sulphur market. It is believed that the output of sulphur during this year will amount to about 40,000 tons, and that out of this figure 24,000 tons or 25,000 tons will be consumed by Japanese paper manufacturers and 1,000 tons or so will be exported to China for the raw material of yellow phosphorus match manufacture.

Java Coca Leaf Production

THE cultivation of coca leaves was introduced in Java in 1830. There are now, principally in East Java, 63 estates, comprising 6,000 acres, planted in coca, with coffee, rubber and cacao as a subsidiary crop. The plants are grown from seed and transplanted when they are six inches high: the first leaves may be gathered after a growth of eight months. Mature shrubs will yield from 750 to 850 lb. of leaf per acre. The bulk of Java coca is shipped to Amsterdam, the United States and Japan being the other principal purchasers. The exports from 1916 to 1920, with the quantity shipped to the United States and Japan, were as follows:—

Year	Total Exports	Exports to U.S.A.		Exports to Japan	
		Lbs.	Lbs.	Lbs.	Lbs.
1916	897,600		600,600		4,400
1917	598,000		517,000		37,400
1918	1,456,400		897,600		558,800
1919	2,186,000		275,000		235,400
1920	3,755,400		24,000		649,000

Java coca has about the same alkaloidal content as the Peruvian product.

The Santonin Situation

WE understand that the Eastern and Russian Trading Co., Ltd., 8 Drapers Gardens, London, E.C.2, have now concluded an agreement with the Russian Government, by which they have regained their original position as sole consignees and distributors of santonin from Russia to all the world's markets. At the present moment the stocks of santonin in the United Kingdom are practically exhausted, but the company are doing their utmost to expedite the despatch of substantial supplies to this country, so that all orders placed with them should be fulfilled as early as possible in August. It is no fault of the company that they have been unable to satisfy the insistent demand for santonin, but the circumstances under which they have laboured have been exceptional. The company, in the interests of consumers, have been endeavouring to establish lower prices, and as soon as the new supplies come to hand it is quite anticipated that the new rates will show a reduction. They will be fixed on an absolutely stable and firm basis and on such a scale that will be convenient and profitable, both for the large and small buyer. It is satisfactory to note that by the new contract England is to be the sole centre of distribution for this valuable drug. We may also recall the fact that it was mainly through the efforts of the Eastern and Russian Trading Co., and at great expense and labour, that santonin was removed from the list of products paying the 3½ per cent. import duty under the Safeguarding of Industries Act. In connection with this agreement it is interesting to note that the Russian Government is beginning to show consideration to established houses in England who had, prior to the nationalisation of industries by the Government, large financial interests in Russia. Undoubtedly this is the best means of resuming business relations between the two countries, and probably will be more effective than any propaganda literature. Owing to the scarcity of genuine santonin in Germany, recourse has been had to substitutes, and already there have been several authenticated cases of poisoning reported as the result of using these substitutes.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Vindictive Prosecutions

SIR,—I disagree entirely with "Warned" (*C. & D.*, July 14, p. 70) in refusing any prescriptions because a few unfortunate brethren are fined. It is far better to put up a good fight, as surely when following our legitimate vocation we are professional men, and therefore are allowed the privilege of judging individual cases on their merits, just as a medical man, solicitor or barrister weighs up a case (though not always correctly). We are expected to take reasonable precautions in everything appertaining to the professional side of our calling, and should do so, both for our own reputation and for the benefit of the State; but we should not overlook the fact that many vested interests wish to destroy our standing and filch our rights, and any campaign that belittles us in the eyes of the public is a gain for our enemies. There are many organisations that would like to drive wedges through the different Pharmacy Acts, and though no doubt they (the Pharmacy Acts) are the weakest on the Statute Book, I think it is the duty of every pharmacist to defend each clause as he would his hearth and his home, and not give up the smallest privilege he has. I regret to see he has to have his charges fixed, his D.D.A. preparations marked, and so much done for him which, to my mind, takes away the professional status which his training and statutory qualification should give him.

Yours, etc.,
ALBAN ATKIN.

West Hampstead.

SIR,—I imagine the effect upon pharmacists generally of the results of the legal proceedings referred to in the *C. & D.* of July 7 (p. 6) must have been staggering. Are we to take all this kind of thing lying down, or are we to make a determined effort towards at least a modicum of freedom? Is there no such thing as an appeal? Counsel appears to have put all the points possible, and, no doubt, with emphasis, but in this matter we want all the weight available. "Warned" suggests in your issue of July 14 (p. 70) what is in effect the boycott—only to be carried out by perfect agreement. No doubt something of the kind exists already—for I know of some pharmacies where such scripts are through various excuses not handled at all. A few days ago I received one of a mild character, but coming under the Act. It was undoubtedly *bona-fide* and signed by the doctor, but I do not know the man from Adam. As to a directory, I did on this occasion ask the nearest doctor; but he had only an old one that belonged to his father! He said he was not going to waste money on a directory, but fancied there was one at the Public Library. Even so, what good would it be? A sort of passive resistance is, however, not going to help us much, and many innocent people will suffer. An appeal at law carried to the extreme limit should be the first move. If that failed, the best thing for the bulk of us would be to reject all such scripts except those of well-known local doctors.

Yours, etc.,
J. P. N. (17/7).

The Grocer-Pharmacists' Brotherhood

SIR,—I see that Sir W. Glyn-Jones, secretary to the Pharmaceutical Society, is actively pursuing his scheme of attracting the grocers into the Proprietary Articles Trade Association, and I should like to know how far his policy is that of the Council of our Society. Many pharmacists have their doubts about the wisdom of the steps taken by Sir William, and it is time that the position of the Society in the matter was cleared up.

While keeping studiously apart from communion with the professional chemical bodies, we seem to be drifting into a close co-operation with the grocers. Without casting any aspersion on that honourable calling, it may be suggested that we, as pharmacists, should look in other directions for associates. But, even apart from the question of professional prestige, the proposition is of doubtful pecuniary advantage, and may prove in the long run highly detrimental to the pharmacists' profits should the grocers, who are more numerous, obtain a preponderating influence in the P.A.T.A.

Yours truly,
CYMRO (18/7).

Cost of Living

SIR,—Your review of the industrial problem in the drug trade (*C. & D.*, July 14, p. 48) brings the question up to date, and is a comprehensive statement of the position at the moment. At the same time, when one considers the cost of living from a wage earner's point of view, one cannot be surprised that the official index figure is looked on as a very bad joke by most workers. Rates are quite double pre-war amounts in most places, and so are the staple commodities of life. I give a small comparative table:—

	1914 s. d.	1923 s. d.	Increase Per cent.
Bread, per loaf	0 4½	0 9	100
Milk, per pint	0 4	summer 6d., winter 8d.	75
Butter, per lb.	1 0	1 10	80
Meat, per lb.	1 0	1 10	80
Tea, per lb. ...	1 6	3 0	100
Sugar, per lb.	0 2	0 6	300
Coal, per ton	25 0	45 0	80

These round figures are for good-quality materials, and show an average of 115 per cent. more than the pre-war cost; clothes may be cheaper than they were, but the ordinary man has to make a much smaller wardrobe suffice in these days and to wear his garments longer. Rent is fixed at 40 per cent. above pre-war figures, but if this item was added to the above table it would only reduce the figure by 8 per cent., bringing it down to 107, which is considerably more than the official figure. No wonder wage earners are dissatisfied with it.

Yours, etc.,
WORKER (16/7).

Are Receipts Necessary?

SIR,—In further contribution to this question, I remember over thirty years ago a County Court judge deciding against a cheque being proof of a receipt, his contention being that a cheque cannot of necessity apply to the account owing, although it may be for the same amount. American decisions are of no value in this country. (Thank goodness!) Another interesting point is that a traveller's "pencil" receipt, although frequently used, is illegal, as it can be more easily fraudulently altered than one in ink.

Yours faithfully,
ANCIENT AND MODERN (14/7).

Nomenclature

SIR,—Mr. Meyrick's letter (*C. & D.*, July 14, p. 70) shows the danger of indiscriminate nomenclature when applied to drugs; but in the case of retail sales a margin has to be allowed for public use and custom. Camphorated oil is lin. comph., just as lime water is liquor calcis; but if a customer asked for liniment of camphor one might suspect that he required lin. camph. co. Similarly, when asked for liquorice powder, one would not hand over pulv. glycyrrh., but pulv. glycyrrh. co. In prescribing, many practitioners are very loose in their methods. One common error is to prescribe "acid. hydro. dil.", which might mean many things, again, liq. plumbi is a frequent stumbling-block. The labelling of mag. carb. "Magnesia" would get one into trouble under the Sale of Food and Drugs Acts, and is on a parallel with carbonate of iron and citrate of magnesia. A little explanation goes a long way with customers, besides impressing them with the fact that the pharmacist knows his work.

Faithfully yours,
NOMEN (16/7).

The Apprenticeship Question

SIR.—On reading the report of the meeting of the Leeds Branch of the Pharmaceutical Society (*C. & D.*, July 14, p. 60), I was simultaneously angered and amused at the flagrant inconsistency of some of the recommendations in regard to the future of apprenticeship. The meeting recommended four years' indentures, University matriculation standard, and the rate of remuneration to be the handsome sum of 5s. for the first year, rising to 20s. for the fourth year. As regards the University matriculation standard, while such a standard is highly desirable, I am greatly apprehensive of its practicability, seeing that over 90 per cent. of present-day pharmacists have not matriculated. At any rate, I contend that four years' indentures are hopelessly ridiculous, while the rate of remuneration is even more out of place. The former recommendation might have been appropriate about twenty-five or thirty years ago. At that time the apprentice gleaned some highly useful knowledge for his examination, for it was customary for the pharmacist to prepare his own tinctures, infusions, pills, plasters and ointments. Nowadays the pharmacists follow the stereotyped procedure of "going to the warehouse for it," with the result that a two-years' indenture would be quite ample in the vast majority of cases, especially if those menial duties were deleted from the apprentices' routine. The duties I refer to are those of sweeping floors, dusting and washing bottles, etc., with which the unfortunate apprentice is intimately acquainted at the incidence of his apprenticeship. In fact, on again glancing through the report I am left in doubt whether the gentlemen at the Leeds meeting, in making the recommendations, were actuated more by an earnest solicitude for the apprentices' welfare or by their own business acumen—for what is an apprentice to-day to his employer if not a potential "something-for-almost-nothing"?

Yours faithfully,

APPRENTICE (17/7).

Salaries and Insurance Dispensing

SIR.—Your remarks on the wage question (*C. & D.*, July 14, p. 49), particularly in regard to Insurance work, should be brought forcibly to the notice of those who are likely to be concerned in the negotiations for the new Insurance contract. Any reduction in the dispensing-fee, having regard to its already unsatisfactory smallness, can only be met by an employer either by cheaper labour or by lowering wages, which are admittedly none too large for the nature of the work. On the retail side, apart from dispensing, employers have in many cases good cause to complain; the post-war assistant seems to have an idea that once having secured the situation he has done his work, and it only remains to turn up more or less at the stated hours and to draw his wages. At the present time many pharmacists find that they have to do the bulk of the work themselves, besides running their businesses, and this state of things is not conducive to affording employment for more assistants.

I am, etc.,

EMPLOYER (16/7).

Situations and the State of Trade

SIR.—On receiving my copy of the *C. & D.* each week one of the first parts I turn to is the Supplement; and I note with pleasure that the list of "Situations open" is gradually lengthening out, while that of "Situations wanted" grows correspondingly shorter. I sincerely hope that this denotes a decrease in unemployment among chemists' assistants and managers, and that those who have been out of berths are gradually being absorbed into the trade again. It is possibly also partly due to a less number of entrants into the business, correcting the abnormal figures of the first year or two after the war; it can hardly be due to the condition of retail trade, which is slowly but surely decreasing week by week, in spite of all the cry that there is an awakening. I am afraid this sudden boom only exists in the minds of Press agents and big advertisers who want to get their goods off their hands.—Yours faithfully,

NORMALITY (23/6).

Dispensing Difficulties and Notes

A Suspension Query

SIR.—I should be glad to know the best method of dispensing the following prescription:

Ac. salicyl.	...	...	...	...	...	5j.
Sulph. præcip.	...	...	...	...	gr.	xvij.
Ol. cadiini	...	...	...	...	mxiij.	
Spt. vini rect.	...	...	...	...	...	5xv.
Ol. ricini	...	...	...	...	...	mvj.
Ol. jasmini	...	...	...	...	...	mvj.
Aq. flor. aurant.	...	...	...	ad	5vj.	

Yours, etc.,

D. F. W. (10/5).

[Place the salicylic acid, precipitated sulphur and the oils of cade, castor and jasmin in a dry mortar along with two grains of saponin and sixty grains of compound tragacanth powder. Triturate and add two fluid drachms of the rectified spirit. Mix thoroughly, and, while stirring, introduce gradually the orange flower water. Transfer to a bottle and add to it, in portions, the remainder of the rectified spirit, shaking vigorously and quickly after each portion has been poured in. The salicylic acid and precipitated sulphur require a suspending agent to distribute them evenly for application, and by use of this they are easily controlled. The troublesome element is the oil of cade, in conjunction with the oils of castor and jasmin. The quantity of rectified spirit prescribed is insufficient to retain the oils in solution in presence of so much orange flower water, and with an ordinary suspending medium, such as tragacanth, they separate and finally come to the surface as an unsightly scum. A little intense emulsifying material is necessary, and saponin fills this requirement. Compound powder of tragacanth produces a nicer result than tragacanth itself.

Examination Prescriptions

SIR.—The following prescriptions have caused much difficulty amongst local students, and I should be pleased if you will give details of manipulation through your valued columns.—Yours truly,

SOUTH AFRICA (7/6).

Pulv. acid. boric	...	...	...	5j.
Zinci oxid.	...	...	...	5j.
Lanolin. hyd.	...	...	...	5ss.
Ol. olivæ	...	...	...
Liq. calcis partes æquales		ad	5ss.	

Ft. emulsio.

Acid. tannic	...	...	...	0.143
Ext. bellad. sicc.	...	...	...	0.065

Ft. Supp. mitte ij.

[In regard to the emulsion, the method a compounding would adopt at first sight would be to rub down the powders and lanoline with the olive oil and then add the lime water in small portions while continuing trituration. Up to a point this procedure works nicely, but long before all the lime water has been added the cream begins to separate, and its condition becomes worse as more lime water is introduced. The boric acid neutralises the lime water and destroys its emulsifying effect; hence the trouble. A simple way by which to overcome the difficulty is to employ a small quantity of saponin—about half a grain to an ounce of the lotion—rubbing it down with the powders and lanoline, adding the olive oil, and finally the lime water. Quite a nice cream is thus obtained.

To make the suppositories melt the cacao butter which will be required and mix part of it with the extract of belladonna previously rubbed down with a few drops of warm water, and the remaining part with the tannic acid, then mix the two together and rub down on a slab like an ointment. Now transfer to the melting basin, which should be placed in water not above 105° F. While the mass is softening stir steadily, remove from the heat as soon as it becomes creamy, and pour into the mould. Dry extract of belladonna contains powdered leaf; consequently the suppositories have a grey appearance, owing to the particles of leaf throughout the mass. The more uniformly these particles are distributed the better will be the appearance of the suppositories. The use of a thermometer is imperative.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Appreciations

Allow me to offer my very sincere congratulations on the most distinguished, artistic and literary quality of your Special Issue of THE CHEMIST AND DRUGGIST (16/7).

Mental Arithmetic Not Charged For?

The following order was handed in by a girl of ten:—“Zinc phosphide, 0.7 per cent.; lecithin, 1.9 per cent.; calcii hypophos., 12.9 per cent.; sodii hypophos., 7.7 per cent.; albumen (soluble), 4.2 per cent.; insoluble protein and coagulated albumen, 10.8 per cent.; sugar, 18.0 per cent. Please send 6d. [worth] and kindly say how much is to be taken for a dose.”—*M. C.* (25/6).

Legal Queries

R. L. (10/7).—Carbolic ointment is not a scheduled poison.

N. H. (14/7).—The transaction you mention is not carried out in accordance with the Dangerous Drugs Act Regulations. You should put it in order at once.

F. W. H. (13/21).—Hæmoglobin capsules, if composed of an “entire” drug, can be advertised for anaemia or bloodlessness without incurring liability to stamp duty. If the capsules are compounded they could be sold unstamped by a chemist if made from a formula for a “known, admitted and approved” remedy.

J. T. M. (12/7) bought a house, for his own occupation, in June, 1920, but has not yet succeeded in obtaining possession, as he has been unable to provide alternative accommodation for the tenant. Is his position improved under the Bill now before Parliament? [Under the Rent Restrictions Bill, as it now stands, “J. T. M.” will be able to obtain an order for possession of the house if he can satisfy the Court that he “reasonably” requires it for his own occupation. Until the Bill becomes law no action can, of course, be taken under the new provision and, in any case, “J. T. M.” cannot evict the tenant until the tenancy has been terminated by the requisite notice.]

J. E. P. (13/7) is tenant of business premises which have recently been sold. Prior to the sale he entered into a fresh tenancy agreement with his old landlord at an increased rental. Is this new agreement binding upon the new landlord; and can “J. E. P.” be compelled to vacate the premises after due notice has been given? If so, is he entitled to compensation? [The agreement is binding upon the new landlord. As the protection of the Increase of Rent Act does not apply to purely business premises, “J. E. P.” can be evicted after his tenancy has been terminated by the requisite notice. He is not entitled to compensation unless his agreement so provides.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. T. W. (17/7).—COCONUT OIL SHAMPOO.—See *C. & D.*, January 7, 1922, p. 12.

R. J. H. (1/7).—HEALING OINTMENT.—The sample appears to be a mixture of resin and boric acid ointments. It contains a considerable proportion of boric acid.

G. A. B. (16/7).—PRESERVING SHRIMPS.—A mixture of equal parts of boric acid (or borax) and salt is employed for this purpose, a little of the powder being sifted on the shrimps.

W. Jones (16/6).—DRENCH FOR BLACKLEG IN CATTLE.—This is a reddish-brown powder containing some crystals. It consists of powdered potassium chlorate with a little ferric oxide (probably 10 to 15 per cent.).

A. E. D. (6/7).—DOG'S COAT SOLUTION, used to make the hair stiff when preparing the animal for show purposes.—This preparation appears to consist of a solution of gelatin and gum acacia. It gives reactions for both these. The solution is acid in reaction and has an odour similar to that of Sanitas.

D. F. W. (22/6).—ACID SULPHURIC, s.g. 1.300.—The reply to “A. B.” (*C. & D.*, June 16, p. 858) is quite in order. An actual trial (using c.c.) gave the following results: Commercial sulphuric acid, 29 c.c., mixed cautiously with water 49 c.c., and cooled, gave a mixture measuring 65 c.c. with a specific gravity of 1.310 at 68° F. Adjustment of specific gravity to 1.300 required addition of water until total volume was 68 c.c. The development of heat and abnormal densities of sulphuric acid and water mixtures are the basis of theories of chemical combination which have been put forward from time to time. In the reply we emphasised the fact that the calculation is based on the assumption that no contraction or expansion occurs.

J. C. (23/6).—The rhizome sent is that of *Potentilla Tarmentilla*, N.O. *Rosaceæ*. It is remarkable amongst the British plants of the genus for having eight sepals and four petals, most of the other species having the floral envelope five-parted. It is also distinguished by having the carpels longitudinally wrinkled. The flowers are yellow, but smaller than most of the other yellow-flowered species. The rhizome, usually about 2 in. long and $\frac{1}{2}$ in. thick, is noticeable for its pitted surface externally, and internally for the transverse rings of interrupted vascular bundles, contrasting with the pinkish-red cellular portion. The upper leaves are sessile and three-parted, but the lower ones are five-parted and stalked, and the stipules are proportionately large. The rhizome is very astringent and has been used in the form of decoction for relaxed tissues and for haemorrhage, diarrhoea and dysentery. The name is said to be derived from *Tormina*, in allusion to the gripping pains in dysentery and diarrhoea, for which it is used. The rhizome is stated to contain between 24 and 30 per cent. of tannin and a small quantity of ellagic acid. The red colouring matter or tormentil red is soluble in alcohol, but not in water; it is estimated at 18 per cent. The tannin is precipitated by gelatin and gives a blue-green reaction with ferric chloride, and when boiled with dilute sulphuric acid gives tormentil red, but no sugar. In Potter's “Cyclopædia” (p. 284) the rhizome is stated to be one of the safest and most powerful of astringents. It has been used in tanning in the Orkneys and Western Isles of Scotland. Linnaeus in “Flora Saponica” says: “By masticating the root and rubbing in the saliva with their fingers the Laplanders dye of a red colour the skins which they use as part of their clothing.” Swine are said to be fed on the roots in Killarney. It would be interesting to know if this practice is of common occurrence in Ireland.

Retrospect of Fifty Years Ago

Reprinted from
“The Chemist and Druggist,” July 22, 1873

Limousin's Cachets

M. Limousin has recently introduced a novel method of administering powder in what he terms a *Cachet Médicamenteux*. This consists of two round discs of wafer paper, fitting on each other and fastened round the edges, enclosing between them a certain dose of the medicament. These *cachets* vary in size from that of a sixpence to a florin, according to the bulk of the powder. They are most perfectly made, and each is stamped with embossed letters indicating the name and quantity of the medicine enclosed. These are put up for sale in pretty little tin cases, and as a contribution to elegant pharmacy, these *cachets* deserve to rank high. Among the powders thus treated we may name the sulphate of quinine, rhubarb, sulphur, reduced iron, magnesia, and charcoal. M. Limousin's London agents will be found enumerated in his advertisement.

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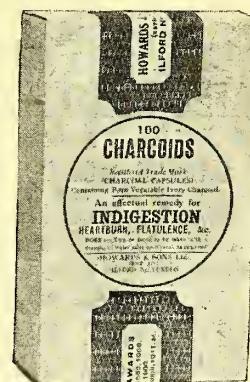
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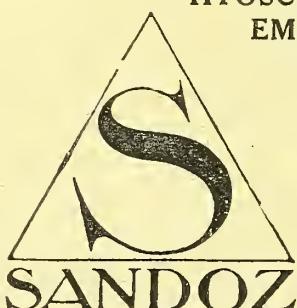
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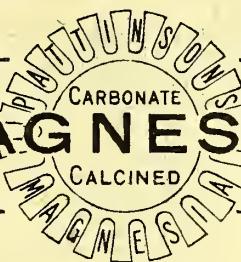
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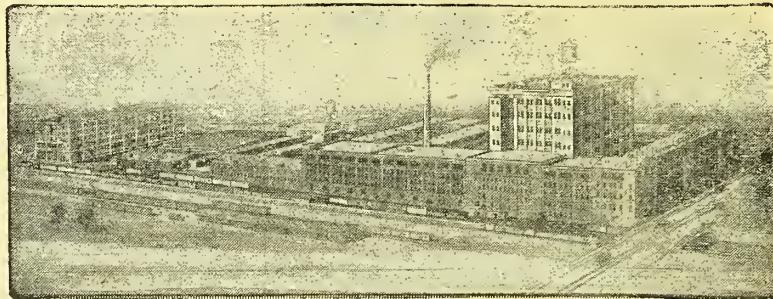
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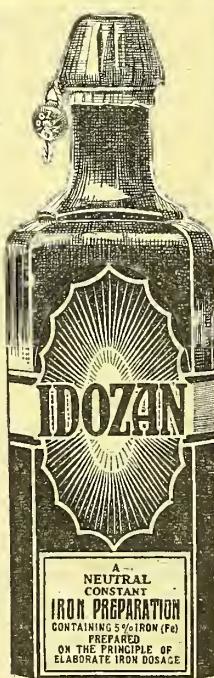
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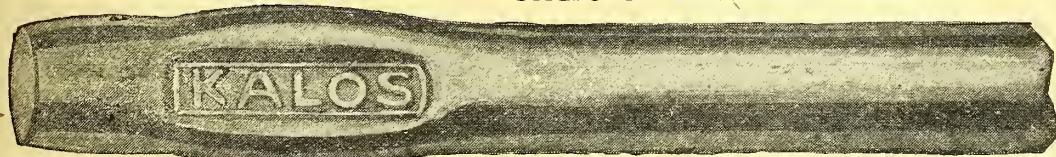
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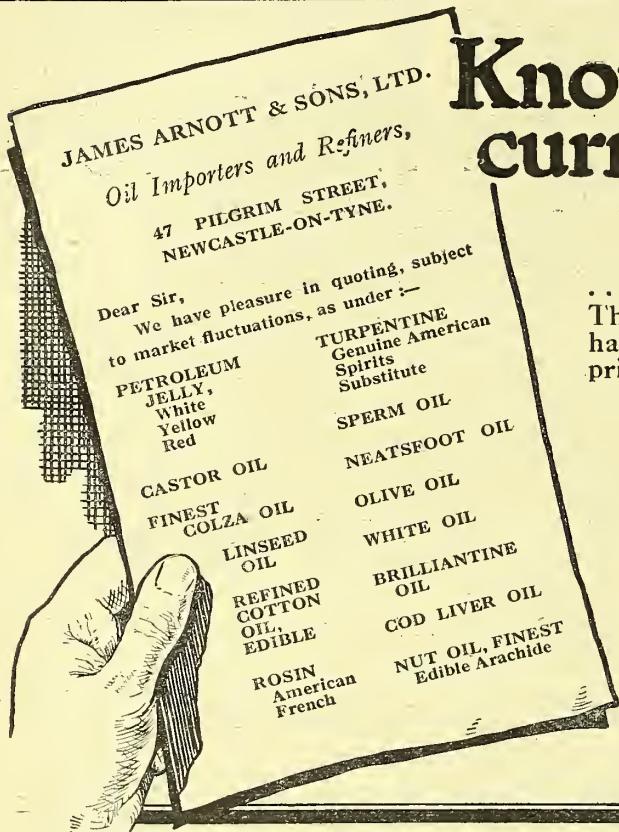
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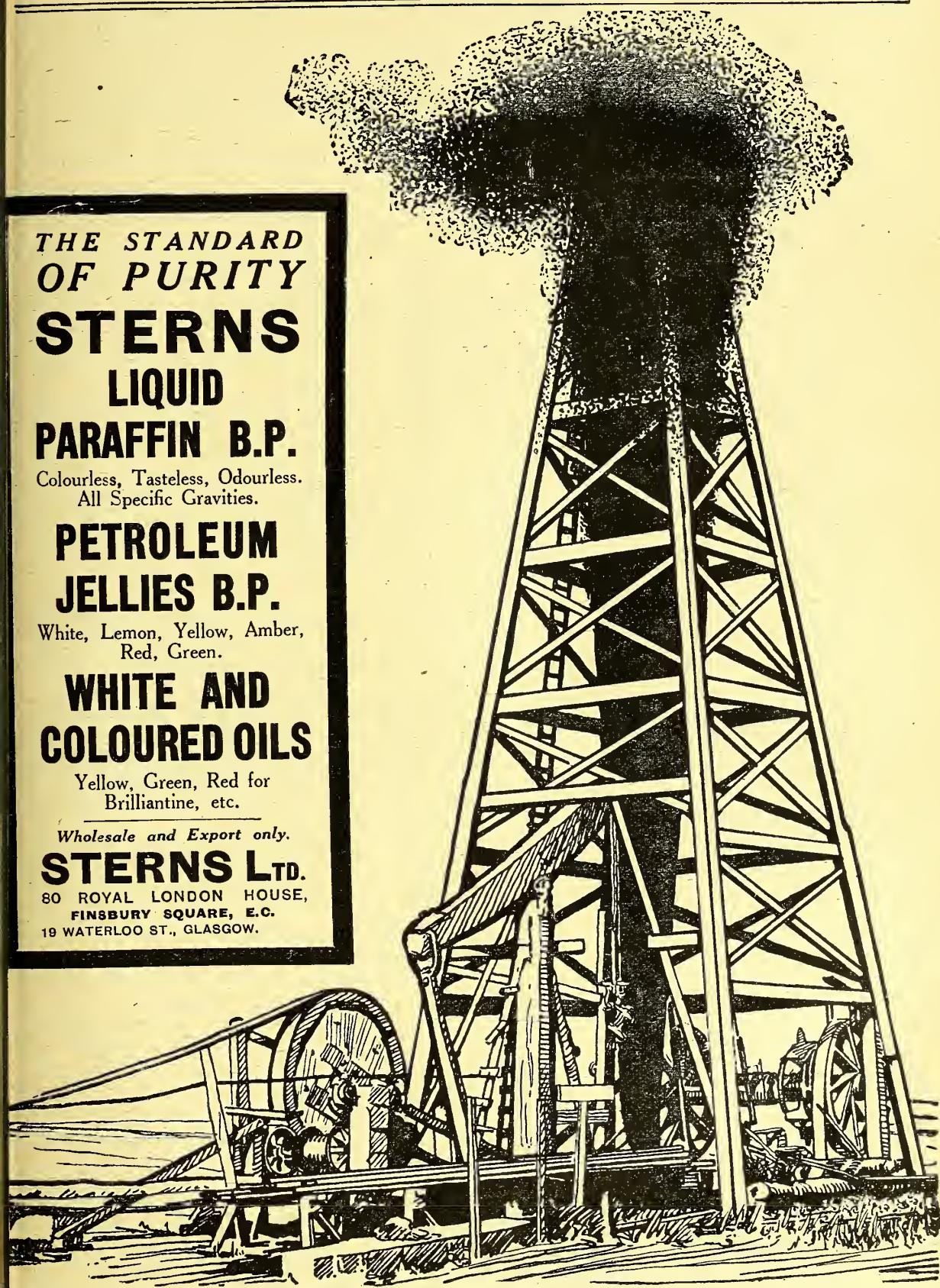
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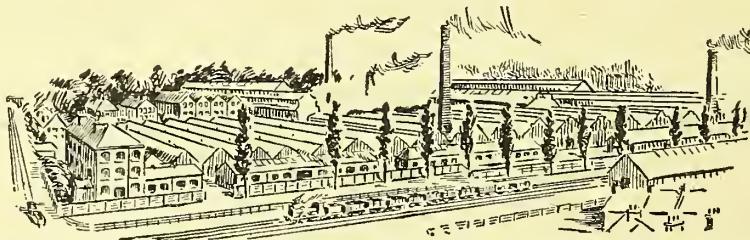
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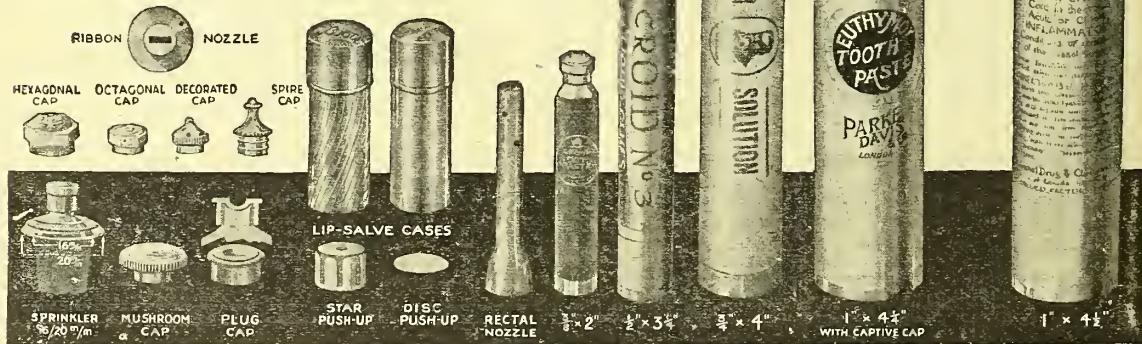


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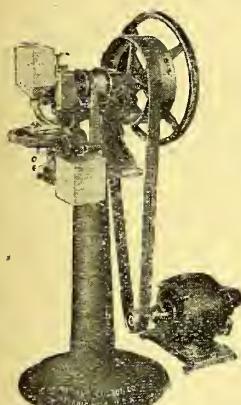
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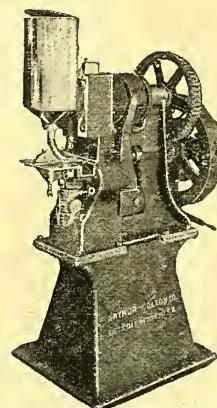


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Of solid construction, careful attention has been given to all wearing parts, thus greatly adding to the life of the machine.

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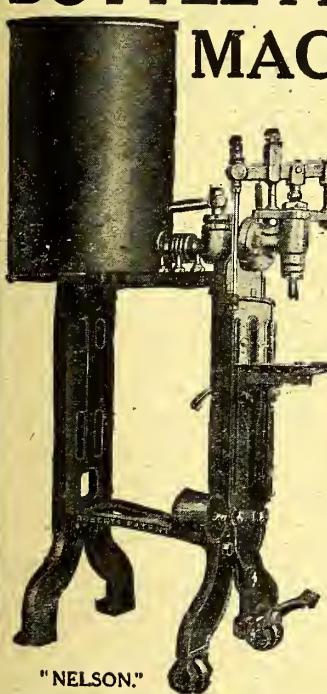


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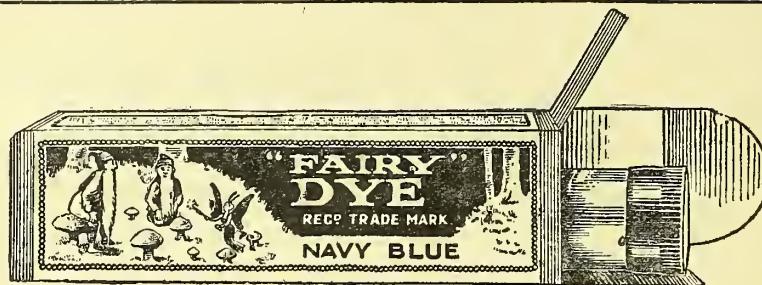
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Mean Greater Turnover for You—and Absolute Satisfaction for Your Customers.

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are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

You can rely upon Fairy Dyes—for prompt delivery in any quantities—for fresh stocks—for quick, easy-to-handle, clean turnover, and as tried favourites your customers are always satisfied. See that you are supplied without delay.

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The little figure above reminds your customers about Movol.

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38½%

We give below the PERMANENT advantageous terms on which Movol is distributed.

	Cost Price.	Selling Price.	Bonus Tubes.
2 doz. 6d. Tubes	8 - 0	12 - 0	2 6d. Tubes 1 - 0
1 doz. 1/- Tubes	8 - 0	12 - 0	1 1/- Tube 1 - 0
	16 - 0	24 - 0	2 - 0

Net profit 10/-, i.e. 38½%. 5% more than the usual profit.

If 1/- size Tubes are not desired we will supply three or four dozen 6d. Tubes with corresponding number of Bonus Tubes.

You will note that this is not a special offer, but is a PERMANENT TRADE BASIS.

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This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

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The above conditions apply only to the United Kingdom.

EXAMPLE.

		<u>COST</u>	<u>SELLS FOR</u>
3½ dozen 1/3 size at 12/- net	...	£2 2 0	£2 12 6
2 " 3/- " at 30/- "	...	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	...	10 6	
		£4 11 6	£6 4 6

*Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.
Window Display Material Free and Carriage Paid.*

WHOLESALE PRICES OF PHOSFERINE.Carriage Paid.Monthly Account.

1/3 size	...	12/- per doz. net.
3/- "	...	30/- " "
5/- "	...	48/6 " "
12/- "	...	114/- " "

PROTECTED PRICES.

Phosferine and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

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Intending purchasers will do well to consult us, as we have an unrivalled experience in the sale, transfer and valuation of all classes of business, and give expert advice free of charge.

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THE CHEMIST AND DRUGGIST



SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

JULY 21, 1923

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

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12.—LANCS.—Cash Retail Business, with Kodak Agency; returns, £3,000 per annum, at good prices; good living accommodation; rent, £60; new lease would be granted; further details on application.

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14.—DORSET (Near Coast).—Middle-class Cash Retail Business; returns at the rate of £1,250 per annum; lock-up shop, fairly well fitted and stocked; rent, £60; moderate rates; price £600.

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A BROAD.—Business wanted to purchase abroad, India, Japan or China; purchaser desirous of going abroad next January. Reply 134/20, Office of this Paper.

MANCHESTER.—Wanted, Chemist's Business or Druggist capable of large increase under qualified management must be in good business position; neglected business not objected to, but must bear strictest investigation. State full particulars, which will be treated as private. 135/14, Office of this Paper.

A DVERTISER requires sound business in good market centre returning £2,500 or over; cash available and strictest confidence observed, or would consider partnership in larger concern. 137/8, Office of this Paper.

PHARMACIST requires business, good location, or Partnership in same, view succession; cash £1,800. Reply "Plodder," 136/15, Office of this Paper.

SOUND Business wanted at once, in pleasant locality; or with residence attached or near. Send full particulars, strict confidence, to 135/34, Office of this Paper.

£20 WILL be paid for information (if acted upon) of desirable Business Property for Sale or to Let, at suitable for a Chemist desirous of opening in good-class neighbourhood. Failing above advertiser asks all who have a good class Business for Sale to communicate with him, giving full particulars. "Gamma," 206/38, Office of this Paper.

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EWESBURY (near).—Mixed Retail, Dispensing and Photography; good opening for Optics; turnover about £2,200; opportunity to acquire a genuine established business and property at a very low-figure; property, £1,000; business, £900; double-fronted shop on main road; well stocked; five-roomed house with 2 cellars and yard; as a quick sale is necessary, a low offer will be entertained. Marsden, Chemists' Valuer, "Lyndon," Mayfield Road, Bridlington.

ENT.—Returns £1,100; light Retail, Dispensing, Prescribing and Photo; good opening for Dentistry and Optics; net profit over £300; price £925. 29/916, Office of this Paper.

ANCASHIRE.—Compact Drug Stall in working-class district; average turnover £900; gross profits 45%; rent £40 exclusive; weekly tenancy; price £600, or near terms arranged. 8/6, Office of this Paper.

EEDS.—Small Drug Store, old-established, main road, busy thoroughfare, working-class district; good opening for qualified man; turnover 1922 about £1,000; rent, house and shop, £52; price £750 or near offer; reasons for sale, property ill. Charles C. Marsden, Chemists' Valuer, "Lyndon," Mayfield Road, Bridlington.

ONDON.—Eastern Suburb.—Splendid position in main road; buses and trams stop outside door; double-fronted and fully stocked; returns last two years over £4,000 per annum; present rate slightly less owing to general depression only; good use and garden; favourable lease granted. Particulars on application of banker's of wholesaler's references. 136/33, Office of this Paper.

IDLANDS.—Returns about £2,500 last year; light working-class Retail, with Photo; busy street; not having personal mention, returns are lower now, but quite capable of increase on last year; price £1,200. 29/915, Office of this Paper.

IDLANDS.—Centre of city, mixed Dispensing and Retail, with scope for Photography; average return about £700; rates, elect., etc., 35s. weekly; lock-up shop, nicely fitted; established 10 years; for one adding Photography or Optics opportunity occurs; price £450, or offer invited. Apply, 137/15, Office of this Paper.

IDLANDS.—Old-established, neglected Chemist's business in thickly populated working and middle-class district; opposition nominal; general Drug, Dispensing; splendid opening for H.I., Optical, Photography, Drysalteries; cash trade; commodious shop; long, easy lease; excellent opportunity and scope for strong business; fair stock, fittings, £630. 136/36, Office of this Paper.

T. PANCRAS, N.W.—Cash Retail business, situate in London market thoroughfare; no opposition; very old-established; turns average £50 weekly, can be increased; net rent £35; freehold, including stock, £850, or near offer would be considered. 137/10, Office of this Paper.

OUTH YORKSHIRE.—Old-established (50 years) Chemist's Business; full Wine and Spirit Licence; large and profitable inter, proprietary, and prescribing trade; good N.H.I.; valuable and exclusive agencies; turnover over £3,500 per annum, verified by chartered accountant; valuable freehold property; modern house attached; central position; rates and taxes low (either rent or sell); lot £4,750 (allow £1,000 to go on mortgage); owner retiring. Principals only. 135/27, Office of this Paper.

ORKS, WEST RIDING.—Mixed Retail, Dispensing and Prescribing business; established 36 years; turnover about £50; net profit about £550; nearest chemists one mile; population 4,500; nicely fitted shop with three stock-rooms and ars; at present a lock-up shop, but could be used to live in; property, fixtures and goodwill, £1,000; stock at valuation, about £650. Charles C. Marsden, Chemists' Valuer, "Lyndon," Mayfield Road, Bridlington.

RTISAN class cash trade; Yorkshire inland town; lock-up; house near if desired; good storage; well fitted, fully equipped; double-fronted; lease at moderate rental; N.H.I. and local agency; opening for Rexall and Optics; fullest particulars interview; £500 secures managing partnership at £5 per week; price £950. "Buchu," 136/18, Office of this Paper.

FAMILY and Photographic Business, market town in East Midlands; last valuation by R.P.U., stock and fixtures £2,243 13s. 2d.; turnover nearly £5,000; owner emigrating to New Zealand; private house, side entrance; rent £77; sub-let £97; books can be seen; will accept £1,750 for quick sale. Further particulars on application. 135/30, Office of this Paper.

FOR Sale.—Old-established Chemist's business in the centre of Dundee; well-equipped shop. Fuller particulars from and offers received by John R. Strachan, Solicitor, 73 Murraygate, Dundee.

GOOD corner position, main road; Lock-up Shop, parlour, two large cellars; densely populated; unlimited scope; electric trams, buses pass door; no near opposition; electric light and gas; heavily stocked with saleable goods; profitable trade, Drugs and Prescribing; South Coast; returns last year £700; price £600; freehold can be purchased. 134/24, Office of this Paper.

OFFERS wanted for sound Chemist's business in working-class district; average turnover last three years £2,000 per annum; quick cash trade; lease or sell property; large Midland town; stock about £500. 136/28, Office of this Paper.

£2,000 returns approximately, with scope for increase; very profitable; better working-class London suburb; good house; long lease; health cause of sale; well fitted and big new stock; price £1,400; no instalments. 136/40, Office of this Paper.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A FRICA.—We are seeking a Representative to introduce our products, Essential Oils and Synthetic and Aromatic Chemicals, in South Africa; must have full knowledge of the trade and the country. Apply to 29/918, Office of this Paper.

NORTHUMBERLAND, Durham and Yorkshire.—Representatives, with established connection on above ground amongst Wholesale and Retail Chemists, Doctors and Veterinary Surgeons, wishes to represent London Houses for Drugs, Surgical Instruments and Sundries on commission and part expenses; showroom and warehouse centre of Newcastle. C. J. Roote & Co., 33 Clayton Street, Newcastle-on-Tyne.

A MERCANTILE concern, established in Barcelona, Spain, since the year 1882, wishes to enter into business relations with first-rate manufacturers as their Sole Agents for selling their goods throughout Spain on commission or for his own account, for Drugs and Chemical Products (Pharmaceutical Specialities); correspondence in English; first-class banking and commercial references. Address all propositions to Hijos de Pedro Pladellorrens, S.C., Gerona, 37, Barcelona.

A GENT wanted at once for Leeds and district, to call on Chemists for well-advertised Proprietary. Apply, "Borax," 29/920, Office of this Paper.

A GENTS wanted, with own Representatives, to take up fast selling lines. ZO for the Feet, Pioneer Sassafras Oil Pomade, Indian Hair Renewer, all 3d. lines; 750,000 sold last season. First rate commission to live firm. Apply, Sales Manager, Pioneer Drug & Chemical Co., 522 Old Kent Road, London, S.E.1. Phone, 6119.

FRENCH Firm, established in London since 1904 and shortly opening office in France, would like to hear of one or two important British houses desiring to develop their sales in that country. Write, in strict confidence, to Box 2178, Agence Havas, 6 Breams Buildings, London, E.C.4.

WANTED, Agent with established connection to introduce good quality Glass Perfume and Pomade Containers to manufacturing perfumers. "A. W." 178, care of Deacon's, Leadenhall Street, E.C.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

LEGAL.

J. F. GRIFFIN, 139 Monument Road, Birmingham (Deceased).
ANY persons or firms having Claims against the Estate of the above deceased are requested to forward detailed particulars immediately to the undersigned.
 ERNEST J. GEORGE,
 3, St. Paul's Close, Walsall.
 21st July, 1923.

TO LET.

SHOP with House to Let on lease; excellent position; good-class neighbourhood; suitable for Chemist. Apply 65 South Parade, Chiswick.

PARTNERSHIPS.

ILVERPOOL.—Pharmacist (50), with ability, energy and enterprise, wishes to obtain Partnership in either Wholesale or Retail business; will invest moderate amount of capital. Kindly reply to 137/20, Office of this Paper.

YORKS.—West Riding City. Old-established Drug Stores. Qualified man required to manage and take half share in same; salary and fees as Co-director, about £300 and half the profits; price £700. Full particulars from Chas. C. Marsden, Chemists' Valuer, "Lyndon," Mayfield Road, Bridlington.

SITUATIONS OPEN.**[HOME.]****RETAIL.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

CITY, E.C.—Reliable qualified Manager required, outdoor; City or West-End experience preferred. Give full particulars. "Pharmakon" (P.C.B. 52/22), Office of this Paper.

EAST Coast Seaside Resort.—Assistant wanted at once for season; good Dispenser. State age, height, salary (indoors or outdoors), names of two last employers, 136/25, Office of this Paper.

EAST Coast.—Wanted at once, temporary Assistant (lady), used to Photographics; short hours. Apply, 137/17, Office of this Paper.

GRAVESEND.—Wanted at once, an Assistant, about 25, preferably qualified; a quick and accurate Dispenser and really capable of taking charge for half a day; personal interview desirable; a capable lady of good all-round experience entertained. E. Millhouse, New Road, Gravesend, Kent.

LANCASHIRE.—Qualified Chemist, possessing good experience and references, to take charge of branch; must be prepared to adopt modern methods of trading; knowledge of Veterinary business an advantage. State age, experience, and salary required in first letter. 136/20, Office of this Paper.

LIVERPOOL DISTRICT.—Locum Tenens required with Minor or Major qualification, from July 30 to September 22, part in good dispensing business and part in institutions; must be under 40 years of age, and available for interview in Liverpool. Apply, with recent references, to "A. B.," c/o R. Sunner & Co., Ltd., Wholesale Druggists, Liverpool.

LONDON, S.E., Croydon District.—Wanted, qualified Assistant in small Company; quick at counter and smart Salesman; knowledge of Photography and good Window-dresser; capable of taking charge. Please give full particulars age, experience, salary required and references. Apply 137/3, Office of this Paper.

LONDON, S.W.—Wanted, Dispenser, about 30 years of age, with Minor qualification; hours of work approximately 8.45 a.m. to 6.15 p.m., Saturdays till 1 p.m.; with 5 years' qualification £5, under 5 years' qualification £4 15s. Kindly state full particulars of experience; personal call will be necessary. Write Box 188, Sells Advertising Offices, Fleet Street, E.C.4.

LONDON, S.W.—Assistant wanted, unqualified, accustomed to West End business. Apply, The Manager, Heppell's, 35 Haymarket.

LONDON, S.W.—Junior Assistant wanted for N.H.I. Dispensing and Cash Retail business; must be a quick and accurate Dispenser and accustomed to dealing with a good number of prescriptions daily. Also wanted Improver or Junior for Stock, Counter, Windows, etc. Apply, stating age, references and salary required, to "Scrip," 137/23, Office of this Paper.

LONDON, W.—Improver or young Junior required at once for quick retail business, with N.H.I. Also well-educated Youth as Apprentice. Apply, giving usual particulars, to Rowland E. Baldry, 330 Portobello Road, W.10.

MANCHESTER ROYAL INFIRMARY.

ASSISTANT Pharmacist required, qualified, male. Apply giving full particulars regarding age (not under 25 years) apprenticeship, experience (some Hospital experience preferred) and salary required, together with copies of two recent testimonials, to the General Superintendent and Secretary. July 17, 1923.

MIDLANDS.—Assistant wanted for high-class Retail and Dispensing business; must have good knowledge of Kodak goods; reliable Dispenser; salary £4 weekly. 135/12, Office of this Paper.

MIDLANDS.—Competent qualified Manager required immediately. State full particulars and when at liberty. "R.", 135/37, Office of this Paper.

MORLEY INDUSTRIAL CO-OPERATIVE SOCIETY, LTD.
WANTED, qualified Manager and Buyer for Drug Department; membership 10,000. Applicants must state ages, wages required, qualifications and full particulars, and forward their applications, endorsed "Drugs," and addressed to the Secretary and General Manager not later than 12 noon, Monday July 23, 1923.

TEIGNMOUTH.—Assistant wanted, well up in Dispensing and Practical Photography; full particulars in first letter, and enclose photo, to commence duties as early as possible. Manager, 1 Orchard Gardens, Teignmouth, S. Devon.

WEST-END.—For a Pharmacy about to be opened, a Manager Junior, and Dispenser (lady); must be qualified and speak good French. Kindly give full particulars as to age, height, experience, salary required, and when free. Apply 137/18, Office of this Paper.

ASSISTANT, immediately, age from 23 to 30; smart Salesman and Window Dresser essential, used to retail photographic trade, with some Dispensing. Please state salary, and apply by letter only with usual particulars (no Bank Holiday duty) to Gerald Morris, Rexall Pharmacy, 24 High Street, Rochester, Kent.

ASSISTANT wanted, qualified or unqualified; West-End experience essential; permanency offered to suitable man; knowledge of French an advantage. Apply at once to Manager, Kempston, 569 Oxford Street, W.

AUGUST 7-18.—Young lady for Dispensing, Stock at Counter; hours 9-7.30, 1 o'clock Wednesday, 8.30 Saturday days, two hours off for meals. Full particulars as to age, height, experience, and salary required to F. Neal, 56 Knights Hill, S.E.27.

AUGUST 16.—Qualified Manager wanted for working at middle-class district; branch; active, obliging Countermaid; abstainer; house attached; permanency to right man; previous one stayed eight years. Apply "Fidelis," 137/1, Office of the Paper.

CAPABLE, unqualified male Assistant required at once, single aged about 25. "A. E. T.," c/o Mr. T. H. Wilson, 7 Barking Road, E.

Returning Photos, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants, with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

PETENT Dispenser required; outdoors; no Sunday duty. Apply Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

PETENT Assistant for first-class Retail and Dispensing with Photographics to mid-September. State full details previous experience, age, height, salary required, and when aged to D. T. Evans, Ltd., Chemists and Opticians, 100, Strand.

PETENT, unqualified Assistant wanted immediately; must be good Dispenser, Counter-hand, and Window-dresser, with graphic knowledge. State full particulars to 29/912, Office of this Paper.

PENSER wanted, about July 28, by Doctor in Sussex. Apply, with usual particulars of experience, salary desired, references, to "Medicus," c/o G. E. Pearson & Co., Manufacturers, 240 Goswell Road, E.C.1.

E position open for smart unqualified Assistant; none but the best need apply; good money for capable, experienced work. Venables, Chemist, 211 King Street, W.

IOR required for Dispensing and occasionally Counter in high-class Dispensing business. Please give full particulars to 45 High Street, Winchester.

IOR Assistant wanted; knowledge of Photography and dispensing essential. Apply personally, W. Main, 220 High Walthamstow, E.17.

Y Assistant, Hall or unqualified, required at once for two months (outdoors). Apply, giving full particulars as to age and experience, stating salary required, to Kirkman, St., Milford-en-Sea, Hants.

UM for high-class business, for four weeks, commencing August 11. State terms, age, and experience. Robson, Pharmacy, Nottingham.

UM, qualified, from morning, August 7, to evening, August 25. State salary, age, indoors or outdoors. Wm. Pharmaceutical Chemist, 19 Burnt Ash Hill, Lee, S.E.12.

UM; not necessarily qualified, required from August 13 to August 25 and September 3 to September 15; gooderman and well experienced for busy West-End business. salary required and references. 136/17, Office of this Paper.

DICAL Stores and Drugs.—An expert Salesman wanted; undeniable references; good salary. Write to "Drugs," c/o rs, 30 Fleet Street, London, E.C.

ALIFIED Manager required immediately. Give particulars of experience, salary required, and when at liberty 9/13, Office of this Paper.

ALIFIED man, young, with good general knowledge, to take charge; permanency if suitable. State salary and all particulars. "Drugs," 29/917, Office of this Paper.

UIRED, August 13, for a fortnight, competent unqualified Junior as Locum, aged 21-25, for Dispensing and Counter, servant with Kodak goods. Apply, with full particulars, to Mr. Chemist, 9 Hospital Street, Nantwich.

CANCY occurs (progressive position) in high-class business or an efficient, reliable, and thoroughly experienced qualified Assistant, who must have had first-class Dispensing and other experience. Applicants please state age, whether married or single, if an abstainer, when disengaged, and date of fication; also enclose photograph if possible. 136/16, Office of this Paper.

ANTED, Evening Assistant, gent., daily 6-8 p.m.; mostly for Dispensing; must have had experience, and be clean, accurate, and methodical. Apply personally, D. Davies & Sons, 324 Caledonian Road, King's Cross, N.

ANTED, immediately, young, experienced Assistant. Apply 13 Gt. Russell Street, W.C.1.

ANTED, from August 4 to August 18, smart Junior, unqualified, used to Photography, for good-class business, w. with terms, J. B. Frank & Co., 310 Brixton Hill, S.W.2.

UNG qualified Locum required, August 13 to 25 inclusive. Apply, with full particulars and state terms, to Thos. M.P.S., c/o Cannock and District Co-operative Society, Cannock, Stafford.

UNG, energetic Assistant required immediately for middle-class business; must be a quick and accurate Dispenser, Salesman, and have had experience in Window-dressing. Cooper, Chemist, Tottenham Lane, Hornsey, N.8.

WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LONDON firm, manufacturing a complete range of Disinfectants, etc., bulk and smalls, require experienced Representative calling on Chemists, Oilmen, etc., London district; exceptional commission terms; also vacancies certain provincial districts. State particulars of experience and connection. Replies, which will be treated in confidence, to 134/18, Office of this Paper.

A FIRM of Wholesale Chemists and Druggists require the services of a Representative, qualified, calling upon Chemists and Doctors only in Northumberland and Durham. Applications, which will be treated strictly confidential, giving age, experience, etc., to 28/911, Office of this Paper.

A N experienced Laboratory Assistant required immediately for general Pharmaceuticals and Toilets; must be capable of assuming laboratory control, accustomed to factory staff supervision and machinery. Please state fully age, past experience and salary required. Write Box 682, c/o Mitchell's Advertising Agency, 1 Snow Hill, E.C.1.

C OMPRESSED Tablets.—Northern firm requires man well up in the manufacture of Compressed Tablets; sugar coating not essential, but should be able to construct own formulæ. State age, experience, and wages expected. 136/21, Office of this Paper.

M ANAGER.—Provincial Wholesale House requires a Manager to take full charge of the Manufacturing Departments, including Compressed Tablets; must be able to control staff. State salary required, age, and experience. 137/11, Office of this Paper.

R EPRESENTATIVE, with live connection, especially amongst Stores and Chemists in City and West-End, to carry very attractive preception in Compressed Tablets, as an additional line, on commission. Apply, White Band Mfg. Co., Ltd., Croydon.

R EPRESENTATIVES wanted by well-known London firm (Druggists' Sundries) for the following nine districts:—Kent, Surrey, Sussex, Essex, Middlesex, Hertford; Wilts, Hants, Berks, I.O.W., Channel Islands; Somerset, Dorset; Gloucester, Oxford, Buckingham, Beds.; Leicester, Warwick, Northampton, Rutland; Norfolk, Suffolk, Hunts, Cambridge; Lincoln, Nottingham; and Ulster. Only those with good connections Chemists and Fancy Goods Stores need apply; very liberal commission and part expenses; part-time not objected if goods don't clash. Full particulars, P.C.B. 52/21, Office of this Paper.

R EPRESENTATIVES, experienced, already calling on Chemists and Druggists, required to carry Proprietary line; best price in its class in the trade; commission terms; state territory covered, in confidence. 135/38, Office of this Paper.

R EPRESENTATIVE wanted for Wholesale Druggists, to call on Chemists in Birmingham and district; must have had good experience in trade and preferably holding connection; state full particulars and salary required by letter only. Charles C. Williams, Ltd., 64-68 Summer Row, Birmingham.

T RAVELLERS, with good connection, offered a splendid quick-selling, well-known Proprietary line on commission basis, 15%, showing chemist 100% on cost. State fully ground covered and lines carried, in confidence. Grounds open: North London, East, South, and West Coasts, Home Counties. Exclusive territory arranged; references exchanged. 135/28, Office of this Paper.

T RAVELLERS calling upon Chemists and Grocers may increase their incomes considerably by selling a Proprietary Article packed by an old-established firm; sample can be carried in waistcoat pocket. 28/895, Office of this Paper.

T RAVELLERS with assured connections among Chemists, Hairdressers, etc., are invited to write for particulars of an attractive and highly remunerative side line. Please state territory covered and lines at present carried. 133/38, Office of this Paper.

C. & D. Stock-Taking Sheets

Halve the Labour of Taking Stock.

Price of Complete Pad, 2/6 post free.

The Chemist & Druggist, 42 Cannon St., London, E.C.4
Publications Dept.

[COLONIAL, INDIAN AND FOREIGN.]

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

INDIA.—Young Man (not over 25), with energy and initiative, as Junior Representative; Biological and Surgical knowledge an advantage, but not essential. Apply, by letter only, to A. H. P. J., c/o Allen & Hanburys, Ltd., Bethnal Green, E.

JAPAN.—Qualified Junior, five years' agreement; indoors; 1st year, £168; 2nd year, £180; 3rd year, £192; 4th year, £204; 5th year, £216; passage paid. Apply for and with full particulars (recent photo essential), to J. W. Franklin, Minato, Dene Road, Northwood.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

SITUATIONS WANTED.

RETAIL.

HOME.]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A MINOR Student requires part time; S.W. London preferred; 7 years' experience Dispensing and Counter; qualified Optician (B.O.A.). "Radix," 104 Clapham Road, S.W.9.

A PPRENTICE, 21, good knowledge of Photography, speaks good French, passed Part I. of the Qualifying Examination in Botany and Physics, requires two years' engagement anywhere in United Kingdom to compete for the final examination. Mattar, 8 Gertrude Street, Chelsea.

A SSISTANT, unqualified, 26, desires change, London or district; competent Dispenser; completed College Course; sound knowledge of Photography; honest, abstainer, industrious and obliging; used to quick Counter trade. "Chemist," 3 Cambridge Place, Hyde Road, Ladywood, Birmingham.

A SSISTANT; brisk Counter trade, Light Dispensing, Windows, Stock; 45s. provinces; satisfactory references; excellent general experience. "Provinces," 133/33, Office of this Paper.

A SSISTANT, unqualified (38); honest, sober; good references; town and country experience. Pallister, 44 Raymond Road, Upton Park, E.13.

A SSISTANT, 25 years' London experience, W. and N.W.; first-class Dispensing; able to take sole charge; good Salesman; finest references. A. B. C., 29/914, Office of this Paper.

A SSISTANT, 21, referred Materia Medica, desires situation till end of September; 7 years' experience; excellent references. 136/24, Office of this Paper.

A S Locum or Permanency.—Lady (Hall) requires post; experienced; disengaged August. Bird, S. George's Terrace, Gt. Yarmouth.

AUGUST Holidays; no salary. Student, 33, experienced, will take duty 10 days seaside town; exchange for rooms and travelling expenses self and wife. "Rhei," 9 Eastern Road, Romford.

BOOK-KEEPING and Clerical Work; day or evenings. Apply "X. Y. Z.," 109/34, Office of this Paper.

BRIGHAM or South Coast.—Qualified; single; 25; tall; good appearance; 8 years' experience, Dispensing, Counter, Photography; excellent references. Thomas, "Downview," Lansdowne Street, Hove.

CHEMIST, 48, tall, active, Dispensing, Counter and Photographic, 34 years' experience, just disposed of business, open for engagement, temporary or permanent. Wilkes, c/o Colemore, Myddle, near Shrewsbury.

CHEMIST'S widow desires engagement Housekeeper; reliable; private or staff; holiday or permanent. "Chemicalis," 59 Primrose Avenue, Haslington, Crewe.

COMPETENT unqualified Assistant; 14 years' good-class experience town and country, seeks permanency. D., 57 Kings-ton Crescent, Portsmouth.

DISENGAGED.—Doctor's Dispenser (qualified), Dresser, Surgery Attendant. State salary (outdoor). "Medicus," 22 Etnam Street, Leominster.

DISENGAGED.—Permanency or Locum; unqualified; good all-round experience; Agricultural; seaside or country; abstainer. Henderson, 61 Castle Street, Kendal.

DISPENSER (Lady), Hall Certificate, seeks post, Locum or permanent; experience with Chemist and Doctor. Lamburd, 15 Morland Avenue, Croydon.

DISPENSER and Book-keeper, 40, requires permanency or Locum; experienced; good references. Strutt, 2 London Road, Hailsham.

EDUCATED young lady, knowledge Dispensing and Photography, seeks to gain experience at Counter work; small remuneration; country preferred. 132/6, Office of this Paper.

JUNIOR or Improver, 19½, seeks situation for further Dispensing experience and opportunities to attend evening classes at an approved college; willing and energetic. 155/29, Office of this Paper.

LADY Dispenser (Hall) requires post as Locum until August 18; permanency in September. Dicks, 13 Mansfield Road, N.16.

LIVERPOOL or District.—Young lady, just out of apprenticeship, requires position as Assistant; well trained; free middle of September. "N. D.," 20 Ellerslie Road, Tuebrook, Liverpool.

LOCUM; qualified; highest references; two weeks from August 2; 25 years' first-class London experience. Parker, c/o Christopherson, Swaffham.

LOCUM; qualified; experienced; excellent references; disengaged August 25. "Pharmacist," c/o Beck, Chemist, 60 High Street, Stoke Newington, N.

LOCUM; qualified; 25 years' all-round experience, including Optical; highest references; dates open, August 1-21 and September 10-30. Gittins, c/o Starkey, Chemist, Beaconsfield Road, Leicester.

LOCUM.—Lady Dispenser (Hall); experienced; excellent testimonials; free from July 30 to August 20, and onwards from September 3. 133/31, Office of this Paper.

LOCUM; 30 years' record experience (12 years' management) highest credentials; efficient service; competitive terms disengaged August 20. "Fairley," City Pharmacy, Lichfield.

LOCUM, 49; abstainer; temporarily out of business; experienced all branches; disengaged July 30 to August 23, then London suburb; any district except industrial. "Relief," 7 York Place, Wetherby.

LOCUM, permanency; 27; qualified; London, provincial experience; excellent references; disengaged shortly. Nethercott, 64 Thornsbeach Road, Catford, S.E.6.

MANAGER, qualified, 45, with London, South Coast and provincial experience, desires negotiation with Pharmacist willing to ease off or retire in near future; view early succession by purchase; interview essential. Replies should give full details, in confidence, "Muterite," 132/5, Office of this Paper.

MANAGER, qualified, 29 years of age, at present Branch Manager, desires a change; good all-round experience, dispensing, Photography, and Prescribing. "Ranunculus," 54/19, Office of this Paper.

MANAGER, qualified, energetic, experienced; disengaged July 30, desires management of good-class Dispensing and retail business; good salary required. "Drug," 393 Mile End Road, E.3.

NO TTINGHAM OR NEAR.—Assistant, 27; Part I. Minor; whole or part time; Counter, Dispensing, Photography; disengaged August 6. 136/23, Office of this Paper.

DART-TIME position required; excellent Dispenser; S.E. London preferred. 136/30, Office of this Paper.

DHARMACIST, age 29, Hospital experience, desires situation in Institute, or would do Locum work for Chemist, preferably in or near London; excellent references. P.C.B. 52/36, Office of this Paper.

QUALIFIED (50), as Manager; Lancashire or Yorkshire preferred; Photographic experience. 135/25, Office of this Paper.

QUALIFIED Chemist, 43; first-class experience in Dispensing and Prescribing; good references; London preferred. P.C.E. 2/23, Office of this Paper.

QUALIFIED, 30; Manager or Assistant; varied experience; Dispensing, Prescribing, Manufacture, and Photographics; good references; permanency; abstainer; Wholesale. Please state salary. 137/22, Office of this Paper.

QUALIFIED Assistant, good Dispenser, requires permanent or temporary post. Apply R. W. Eaton, 14 Grants Avenue, Bournemouth.

DEALIBLE, accurate Dispenser seeks engagement, Bournemouth or district; thoroughly experienced all branches; engaged West-End; highest references. 135/23, Office of this Paper.

REGISTERED.—Branch small Prescriber, Super, etc.; moderate salary; Midlands preferred. Address "D.", 52 Royal Road, Walworth, S.E.17.

SUPERINTENDENT, with part-time services preferred; Minor man. "Pharmacist," 4 Sydney Road, Ealing, W.13.

UNQUALIFIED requires evening post, Dispensing and Counter; reliable; easy access Central London. 137/9, Office of this Paper.

UNQUALIFIED; good-class experience; capable and neat; excellent references; moderate salary. Write 137/13, Office of this Paper.

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